

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE J		PAGE OF PAGES 1 9	
2. AMENDMENT/MODIFICATION NO. 0002		3. EFFECTIVE DATE 07-Dec-2004		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable)	
6. ISSUED BY NAVSEA INDIAN HEAD 101 STRAUSS AVE. ATTN: JESSICA D. MADDOX INDIAN HEAD MD 20640-5035		CODE N00174		7. ADMINISTERED BY (If other than item 6) See Item 6		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)				X		9A. AMENDMENT OF SOLICITATION NO. N00174-05-R-0004	
				X		9B. DATED (SEE ITEM 11) 04-Nov-2004	
						10A. MOD. OF CONTRACT/ORDER NO.	
						10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended.							
Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u> 1 </u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
See page 2 for details.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				TEL: _____ EMAIL: _____			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
_____ (Signature of person authorized to sign)				BY _____ (Signature of Contracting Officer)		07-Dec-2004	

Nortel Passport 8600 BOM			
QTY.	Description	Price	Ext. Price
1	<u>Nortel Passport 8603 3-slot Chassis Bundle. Includes 8003 chassis, one 3-slot AC power supply, one 8691SF Switch Fabric and Routing Software License. (Includes North American power cord). (DS1412E06)</u>		\$0.00
1	<u>8616GTE Routing Switch Module - 16 port 1000BASE-T Gigabit Ethernet interface module. (DS1404034)</u>		\$0.00
1	<u>8648TXE Routing Switch Module. 48 port autosensing 10BASE-T/100BASE-TX Ethernet Layer 3 Switching interface. (DS1404035)</u>		\$0.00
5	<u>Nortel Networks Managed On-Site Support Services for Passport 8603 (Includes 4 Hour Service, 24x7 Phone Support, S/W Patches, Fixes & Updates (GN5300589)</u>		\$0.00
Total =			\$0.00

All materials must be covered by 24x7x365 best available 5 year technical support and 5 year warranty

Nortel Baystack 470-24T BOM			
QTY.	Description	Price	Ext. Price
1	<u>BayStack 470-24T Switch - 24 10/100BASE-TX ports plus 2 built-in GBIC slots and built-in stacking ports. 18 in. stacking cable included. (Includes North American power cord) (AL2012E37)</u>		\$0.00
5	<u>Nortel Networks Managed On-Site Support Services for Baystack 470-24T (Includes 4 Hour Service, 24x7 Phone Support, S/W Patches, Fixes & Updates (GN5300543)</u>		\$0.00
Total =			\$0.00

All materials must be covered by 24x7x365 best available 5 year technical support and 5 year warranty

Nortel Alteon 5106 w/Check Point BOM			
QTY.	Description	Price	Ext. Price
1	<u>Alteon Firewall 5106 - Non-accelerated ASF with 4x 10/100 Ethernet copper ports. (EB1639107)</u>		\$0.00
1	<u>Check Point Enterprise-U-NG (CPVP-VCT-U-NG)</u>		\$0.00
1	<u>VPN-1 Pro Gateway (CPMP-VPG-U-NG)</u>		\$0.00
5	<u>Nortel Networks Managed On-Site Support Services for Alteon Firewall 5106 (Includes 4 Hour Service, 24x7 Phone Support, S/W Patches, Fixes & Updates (GN5300479)</u>		\$0.00
Total =			\$0.00

All materials must be covered by 24x7x365 best available 5 year technical support and 5 year warranty

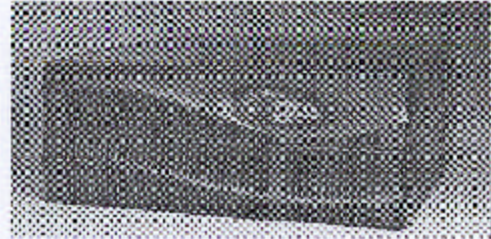
Tripp Lite BOM				
Qty.	Part #	Description	Price	Ext. Price
4	P774-006	6' KVM Cable		\$0.00
5	P774-010	10' KVM Cable		\$0.00
1	B020-016	Tripp Lite Console/16 Port KVM		\$0.00
			Total =	\$0.00

Liebert UPStation GXT 2 Specifications (click for Liebert website)

One (1) Liebert UPStation GXT 2, Model GXT2-6000RT208, 6000 VA/4200 Watts Capacity, 208/120 or 240/120 VAC input & output

System Features/Options/Accessories:

- True on-line double conversion design with PWM sine wave output
- Input PFC with wide input range for longer battery life
- +/- 3% voltage regulation
- Automatic restart after extended outages
- Input and output noise suppression
- Emergency fail safe bypass for mission-critical reliability
- Automatic and manual battery test feature with push button and indicator
- Microprocessor-based control and monitoring
- LED display of battery capacity, UPS % load, on battery, on bypass, & UPS fault condition
- RS232 port with DB9 connector for remote communications options
- Intellislot Communications Port



Model GXT2-6000RT208 also includes:

- Integral hardwire input and output POD with maintenance bypass switch
- Integral sealed, flame retardant, non-spillable user replaceable batteries, suitable for computer room applications
- 6.9" W x 24.2" D x 16.9" H (4U), 146 lbs
- UL / c-UL / FCC Part 15, Class A

Other Items Included:

- (2) External Battery Cabinets, Model GXT2-144VBATT, with interconnect cable compatible with 6000 VA models. 84 lbs. 45+ minutes runtime at 60% load. Please see runtime table attached.
- One (1) Telescoping rails that mount to the sides of the rackmount UPS to facilitate installation into a rackmount enclosure. This kit is for use with all GXT 2U units and associated battery cabinets. Rack kits included hardware for mounting rack slide to rack frame, hardware for mounting rack slide to UPS is included with UPS.
- One (1) Power Output Distribution 30A, with Bypass.
- Input: L14-30P
- Output: (2) L6-30R, (4) 5-15/20R T-slot.
- 3 Year Extended Warranty covering Model GXT2-6000RT208. Total of 5 years.
- 3 Year Extended Warranty covering Model GXT2-144VBATT. Total of 5 years.

Shutdown Software

- **One (1) MLADV**, MultiLink 3.5 Advanced Shutdown and MultiLink 1.5 Shutdown software on CDROM. Software application designed to monitor battery status of Liebert UPS powering the computer system on which it is installed. Provides graceful, unattended shutdown of computer operating system in the event of extended utility power failures.
- **One (1) MLLKB**, MultiLink™ network shutdown license, 5 computers on CDROM. Allows you to efficiently manage power protection on a UPS by running MultiLink™ on one computer and using that computer to notify other computers throughout the network of UPS conditions.

Monitoring Card

- **One (1) OCWEBCARD**, Intellislot 10/100 Mbit Ethernet hot-installable card delivers SNMP and

- **One (1) OCWEBCARD, Intellislot 10/100 Mbit Ethernet** hot-installable card delivers SNMP and Web management to any Liebert UPS [fitted with the card] connected to any 10 or 100 Mbit Ethernet network and provides for in-the-field upgrade of SNMP firmware. The kit includes the Intellislot card, MIB, configuration cable and installation manual. Alarms and parametric data are transmitted over the network using SNMP and a direct connection can be made to the UPS via a web browser

L14-308



30A 125/250V

IG 2710A

3 pole, 4 wire, single

UPStation GXT2-6000RT208

Part Load Autonomy

GXT2-6000RT208					
Load %	Internal	With (1) GXT2- 144VBATT	With (2) GXT2- 144VBATT	With (3) GXT2- 144VBATT	With (4) GXT2- 144VBATT
10%	75	156	236	313	391
20%	38	80	137	183	229
30%	25	52	99	133	166
40%	18	44	74	103	129
50%	14	34	59	82	105
60%	11	28	47	67	87
70%	9	23	39	55	73
80%	7	19	33	47	63
90%	5	16	28	41	54
100%	5	14	25	36	47



The Foundation Integration System provides comprehensive, adaptive and scalable network equipment support. As an integration system, Foundation can integrate all Liebert computer support systems in a single package. Foundation is built upon the robust and flexible Foundation Enclosure and can be scaled up to a Foundation-MCR (Mini Computer Room) delivering full environmental, power and monitoring support. The adaptive Foundation Enclosure features adjustable position mounting rails, simple cable access and management, and a broad array of enhancements to meet specific needs. By adding any combination of support systems Foundation can deliver comprehensive protection to computer systems; support systems include: Environmental systems, fans to Uninterruptible Air Supply (air conditioning with back-up cooling); UPS systems: Line Interactive to On-Line technologies.

- One (1) custom built Liebert Foundation Model **HK788CC00KW936**

Features Include:

Mounting Frame

- Unit dimensions: 23.5" W x 41" D x 78.5" H
- NEMA12 Sealed
- Heavy duty 12-gauge steel construction, painted black. Includes leveling feet & grounding lug.

Internal Mounting Rails

- Full height, adjustable position, EIA hole/spacing.
- Front / Rear Rails – 2 sets (left / right) mounting rails
- Square Hole for cage nuts

Cooling Options Included

ECM (Environmental Cooling Module) Cooling Systems & Options

- ECM Self contained primary air conditioner. Low noise operation, automatic condensate reevaporation system, hot gas by-pass, "Green" R-407C refrigerant
- ECM2000LR 60 Hz - Load matched to 2000VA UPS

BCM (Back-up Cooling Module) Cooling Systems & Options

- BCM Self-contained back-up cooling system. Low noise operation, mounted on BCM rear door. High Temp. alarm activated
- BCM 2000L 60 Hz - Load matched to 2000VA UPS

Enclosure Options

- Plexiglas Front Door - Sheetmetal frame construction with smoked acrylic viewing area. Multi-point latching & key lock, removable & reversible
- BCM Rear Door - Sheetmetal construction. Multi-point latching & key lock, removable & reversible.
- Door and Side Panel Color - Z-0350.

General Enclosure Options

- Casters - Non-locking, rated 1000 lb. total
- Two (2) Power Strip – 10 Outlet / 15 Amp 120 VAC/60 Hz Outlets 5-15R, plug 5-15P
- One (1) Sealed Entrance - Cable Bundle 2"
- One (1) Cable Rings - Vertical Ship loose set of 5 rings
- One (1) Enclosure Cluster Kit - Ship loose hardware

Monitoring Systems

- High Temperature Alarm - Audible alarm, Controller for BCM option

- High Temperature Alarm – Audible alarm, Controller for BCM option

Mounting Options

- All field-installed; include mounting hardware and installation instructions. For use with Front & Rear Internal Mounting Rails.
- Eight (8) Mounting Clipnuts and Screws 10/32 – Set of 10

Upgrade Packages

Upgrade – Cooling Options

Upgrade – ECM (Environmental Cooling Module) Cooling Systems & Options

- ECM Self contained primary air conditioner. Low noise operation, automatic condensate reevaporation system, hot gas by-pass, "Green" R-407C refrigerant
- One (1) ECM2000T 60Hz - Load matched to 2000VA UPS

Extended Warranty

- ECM 3 Year – 5 years total
- BCM 3 Year – 5 years total

Additional Options Include:

- One (1) 3yr warranty for 2nd ECM - Top Mount
- One (1) custom built Liebert Foundation Model **HK788CC00KW937**

Features Include:

Mounting Frame

- Unit dimensions: 25" W x 41" D x 78.5" H
- NEMA12 Sealed
- Heavy duty 12-gauge steel construction, painted black. Includes leveling foot & grounding lug.

Internal Mounting Rails

- Full height, adjustable position, EIA hole/spacing.
- Front / Rear Rails – 2 sets (left / right) mounting rails
- Square Hole for cage nuts

Cooling Options

ECM (Environmental Cooling Module) Cooling Systems & Options

- ECM Self contained primary air conditioner. Low noise operation, automatic condensate reevaporation system, hot gas by-pass, "Green" R-407C refrigerant
- ECM2000LR 60 Hz - Load matched to 2000VA UPS
- Dual ECM Barrier

BCM (Back-up Cooling Module) Cooling Systems & Options

- BCM Self-contained back-up cooling system. Low noise operation, mounted on BCM rear door, High Temp. alarm activated
- BCM 2000L 60 Hz - Load matched to 2000VA UPS

Enclosure Options

- Plexiglas Front Door - Sheetmetal frame construction with smoked acrylic viewing area. Multi-point latching & key lock, removable & reversible
- BCM Rear Door - Sheetmetal construction. Multi-point latching & key lock, removable & reversible

- BCM Rear Door - Sheetmetal construction. Multi-point latching & key lock, removable & reversible.
- Side Panels - Sheetmetal construction. Externally removable with internal security provisions
 - Insulated
- Door and Side Panel Color - Z-0350.

General Enclosure Options

- Casters - Non-locking, rated 1000 lb. total
- Two (2) Power Strip - 10 Outlet / 15 Amp 120 VAC/60 Hz Outlets 5-15R, plug 5-15P
- One (1) Sealed Entrance - Cable Bundle 2"
- One (1) Cable Rings - Vertical Ship loose set of 5 rings

Monitoring Systems

- High Temperature Alarm - Audible alarm, Controller for BCM option

Mounting Options

- All field-installed; include mounting hardware and installation instructions. For use with Front & Rear Internal Mounting Rails.
- Eight (8) Mounting Clipnuts and Screws 10/32 - Set of 10

Upgrade Packages

Upgrade - Cooling Options

Upgrade - ECM (Environmental Cooling Module) Cooling Systems & Options

- ECM Self contained primary air conditioner. Low noise operation, automatic condensate reevaporation system, hot gas by-pass, "Green" R-407C refrigerant
- One (1) ECM2000T 60Hz - Load matched to 2000VA UPS

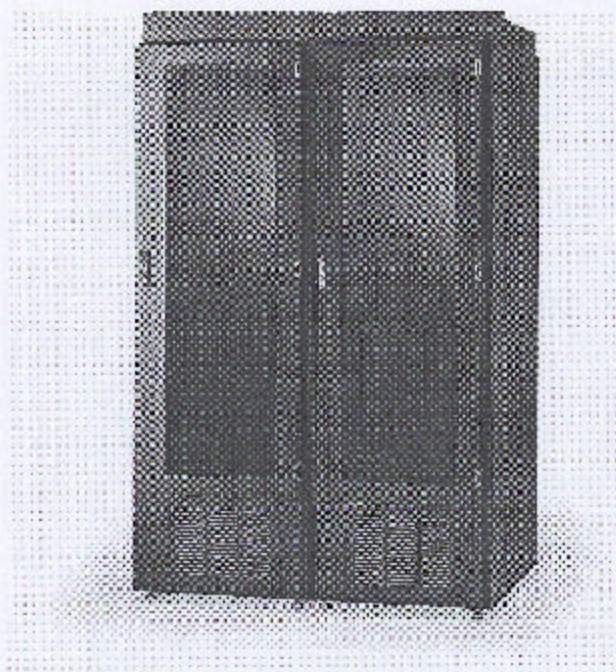
Extended Warranty

- ECM 3 Year
- BCM 3 Year

Additional Options Include:

- One (1) 3yr warranty for 2nd ECM - Top Mount





The ECM is a self contained, DXAC (direct expansion air-cooled), primary cooling system to provide cooling to customer components inside the Foundation MCR. Two independent air paths circulate cool air inside and reject heat

to outside the enclosure. The ECM features a low noise operation, suitable for use in occupied spaces and an automatic condensate reevaporation system. The ECM is available in internal Rack Mount (fits 19" or 23" racks) and external Top Mount version (Top Mount is shipped separated for field installation). A hot gas by-pass provides automatic load matching and enhanced ECM life. All systems utilize "Green" R-407C refrigerant. The Rack Mount ECM is not available on 44" tall enclosures except via SFA.

Table 4 ECM performance data

Model Number	Rated Capacity BTUH (W)	Supported Load BTUH (W)	Max. Ambient °F (°C)	Height** In (mm)-U	Width In (mm)	Depth In (mm)	Weight*** lbs (kg)	Total Heat Rej. BTUH (W)	Input Power (1 ph)				Sound dBA (1.5 m)
									Volts	Hz	FLA	Plug	
ECM1000L*-C80	5315 (1557)	2811 (824)	105 (41)	12.25 (311)-7	17.43 (443)	29 (737)	98 (44.5)	7146 (2064)	120	60	7.7	NEMA 5-15	52
ECM1000L*-C50	6806 (1955)	2811 (824)	100 (38)	12.25 (311)-7	17.43 (443)	29 (737)	90 (41.5)	7690 (2255)	230	50	3.5	IEC-C14	52
ECM2000L*-C80	6897 (2021)	5621 (1647)	105 (41)	12.25 (311)-7	17.43 (443)	29 (737)	101 (45.8)	10695 (3204)	120	60	10.6	NEMA 5-15	52
ECM2000L*-C50	8708 (1965)	5621 (1647)	100 (38)	12.25 (311)-7	17.43 (443)	29 (737)	101 (45.8)	10375 (3040)	230	50	4.9	IEC-C14	52

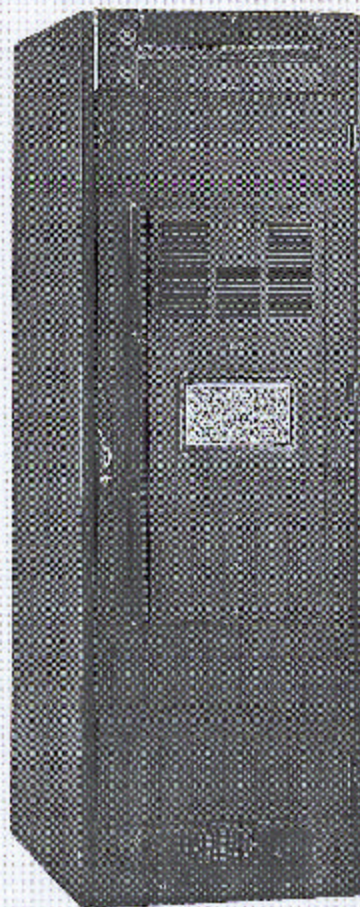
* L (top mount) and R (rack mount).

** Add 4.25" to top-mount ECM units for interface plenum height.

*** For top-mount ECM, add 39 lbs (18kg) to listed weights.

Sound data based on sound pressure A-weighted scale for free field spherical radiation at 1.5 meters from cabinet. Sound data reflects only rack mount design. Consult factory for top mount data.

Backup cooling module on back door powered by UPS during power outage.



Foundation Extended Warranty & MCR Start-up Options

Foundation includes a two-year limited warranty against defects in materials and workmanship. Refer to Warranty section of the Foundation Users Manual for details and terms. Extended warranty options, which cover parts only – labor is not included, extend the standard warranty by either one or three years. These options apply only to the ECM or BCM systems; separate warranty extensions are available for the UPS or SiteNet Integrator systems. Reference Liebert Policy and Procedure number SADP-8501-128 or consult Liebert DPG Applications Engineering for further details.

Liebert offers a Start-up Service for Foundation Mini Computer Room products to provide a cooling system installation and operation review. Start-up includes one site trip within the United States or Canada by a factory-trained serviceman after installation of the Foundation MCR and associated Heat Rejection options (if included). Start-up papers must be returned to Liebert ES&S, a Liebert USA contractor must provide the labor, and all labor must be pre-authorized by Liebert DPG Applications through the local Liebert sales office. The site trip includes the following services for each MCR system: non-powered cooling system/site inspection, ECM &/or BCM electrical and operational checkout, full parts and labor for any remedial work required on the MCR cooling system, and customer training on cooling system

inspection, 2000 hour 2000 overhaul and operational checks, for parts and labor for any remedial work required on the MCR cooling systems, and customer training on cooling system operation at time of start-up. **Note:** Any additional trips by the customer service engineer as a result of a site not ready for start-up may result in an additional cost to the customer.

Statement of Work
JEODNET Infrastructure Implementation

1.0 Scope

This statement of work (SOW) describes the contractor's tasks and materials required for the technical update of the Joint Explosive Ordnance Disposal Network's (JEODNET) enterprise controlling node (N1) and the initial roll out of 4 regional gateway nodes (N3.1-N3.4).

This contract uses a four phase approach, each phase is defined as;

- o Phase 1 - Labor and materials for updating JEOINET's enterprise controlling node (N1) data center. This is a complete solution for building and maintaining 2 server farms 1 unclassified (NIPRNET) and 1 classified (SIPRNET) farm.
- o Phase 2 - Support labor and materials for the migration of data, applications and services off of the existing server farms onto the new server farms procured under phase 1. Contractor will be required to work with the contractor/s currently providing systems administration support to JEOINET. Risk of successful data migration is not assumed by this contract.
- o Phase 3 - (Option 2) Labor and materials to architect an implement an enterprise management system and enterprise intrusion detection system for JEOINET
- o Phase 4 - (Option 3) Labor and materials for the initial roll out of JEOINET's first 4 OCONUS global gateway sites. Each gateway will consist of a NIPRNET and SIPRNET implementation. Gateways will be installed in Asia, Europe, Middle East, and Hawaii

This 4 stage approach has been outlined based on the logical progression of events required to successfully complete global implementation. Each Phase is comprised of specific timelines and dependencies leading into subsequent phases and have their own acceptance/evaluation criteria. Additionally each phase requires support labor categories that differ significantly.

All materials delivered must be newly manufactured no refurbished or repaired equipment can be delivered.

2.0 Background

The JEOINET is a tactical, mission critical information system that provides globally distributed information access/sharing, advanced security, and a completely web-service enabled user environment in scenarios where the accurate and timely delivery of tactical mission critical knowledge is crucial to the success of the mission. Compliant with DoD Architecture Framework, Joint Technical Architecture and the Global Information Grid (GIG) 2.0, JEOINET provides the Joint EOD community with a viable avenue to reach its interoperability and network centric warfare goals. JEOINET also houses the repository for the entire scope of EOD information.

Diagrams 4 and 5 have been provided as a general overview of JEOINET Conops.

3.0 Phase 1 Tasks, Requirements & Deliverables

- 3.1 Task - The contractor will deliver, install (on-site) and baseline configure materials as outlined by the following requirements. Requirements in this SOW are numbered and identified as either T for minimum technical or P for performance.
- 3.2 Materials & Requirements (Note 2 identical farms are to be built, 1 NIPRNET and 1 SIPRNET)

3.2.1 Server requirements – JEODNET employs servers that fall into 1 of 3 categories or “Types.” Wherever a type of server is referred to in this or subsequent sections of this SOW the following requirements apply unless otherwise stated.

3.2.2 Type 1 Servers – Quantity 24 (12 per farm) shall meet the following minimum technical / performance specifications:

Requirements	#	
Servers will be no more than 2U (1 to 1.5 preferred)	1	T
Server will be loaded with Microsoft Windows 2003 Server Enterprise Edition unless otherwise specified under specific server requirements	2	T
Servers will be configured with a minimum of 4GB Ram unless otherwise specified	3	T
Servers will contain at least 4 hard drives	4	T
All hard drives will be the largest and fastest currently supported unless otherwise specified under server specific requirements	5	P
Drive 1 will mirror drive 2	6	T
Drive 3 will be configured as a global hot spare	7	T
Drive 4 will be configured as a global hot spare	8	T
Each server will contain redundant, hot swappable power supplies	9	T
Each server will support remote management	10	P
Each server will accept shutdown commands from the power management and distribution system with adequate time to execute the shutdown process just prior to battery drain	11	P
Each Server will continuously report its health to the enterprise server management system	12	P
Each server will alert the enterprise server management system when its operational conditions fall outside the range of acceptable conditions	13	P
Each server will be imaged onto a separate hard drive partition from the partition on which the OS is loaded	14	T
Each server will be capable of and configured for possible clustering in the future	15	P
No optional or advanced services will be loaded with the operating system	16	T
Each server will be configured as a stand alone server unassociated with any domain (AD and other services will be installed later)	17	T
Each server will contain a configured boot partition	18	T
Each server will contain 2 Fiber GIG E NICs unless otherwise specified	19	T
Each Server will contain 1 serial port (2 preferred)	20	T
Each server will contain 2 USB ports	21	T
Each server will contain 2-32 bit processors	22	T
Each processor will be the fastest currently supported	23	P
Each server will contain a total 2 FC ports on separate cards at 2Gbps (2 ports on 1 card is acceptable but not preferred)	24	T
Each server will contain 1 DVD RW drive	25	T
Each server will contain 1 floppy drive	26	T
Each server will use a Hard Drive – CD – Floppy –PXE boot sequence that is interruptible	27	T
Each servers video card will support 1280 x 1024 resolution and 16.19 million colors	28	T

3.2.3 Type 2 Servers – Quantity 14 (7 per farm) shall meet the following minimum technical specifications:

Requirements	#	
Servers will be no more than 4U	29	T
Server will be loaded with Microsoft Windows 2003 Server Enterprise Edition unless otherwise specified under specific server requirements or Data Center Server Edition is required to support installed RAM	30	T
Servers will have a minimum of 8 GB RAM	31	T

Servers will contain at least 4 hard drives	32	T
All hard drives will be the largest and fastest capacity currently supported by the offeror at time of award	33	P
Drive 1 will mirror drive 2	34	T
Drive 3 will be configured as a global hot spare	35	T
Drive 4 will be configured as a global hot spare	36	T
Each server will contain 2 RAID controllers 1 active and cabled to all 4 drives a second inactive card that drives can be moved to should card 1 fail	37	T
Each server will contain redundant, hot swappable power supplies	38	T
Each server will support remote management	39	P
Each server will accept shutdown commands from the power management and distribution system with adequate time to execute the shutdown process just prior to battery drain	40	P
Each Server will continuously report its health to the enterprise server management system	41	P
Each server will alert the enterprise server management system when its operational conditions fall outside the range of acceptable conditions	42	P
Each server will be imaged onto a separate hard drive partition from the partition on which the OS is loaded	43	T
Each server will be capable of and configured for possible clustering in the future	44	P
No optional or advanced services will be loaded with the operating system	45	T
Each server will be configured as a stand alone server unassociated with any domain (AD and other services will be installed later)	46	T
Each server will contain a configured boot partition	47	T
Each server will contain 2 Fiber GIG E NICs unless otherwise specified	48	T
Each Server will contain at least 1 serial port (2 preferred)	49	T
Each server will contain 2 USB ports	50	T
Each server will contain 4 32 bit processors	51	T
Each processor will be the fastest currently supported	52	P
Each server will contain a total of 2 FC ports on separate cards (1 per card) at 2 Gbps	53	T
Each server will contain 1 DVD RW drive	54	T
Each server will contain 1 floppy drive	55	T
Each server will use a Hard Drive – CD – Floppy –PXE boot sequence that is interruptible	56	T
Each servers video card will support 1280 x 1024 resolution and 16.19 million colors	57	T

3.2.4 Type 3 Servers – Quantity 8 (8 processors per server) (4 per farm) shall meet the following minimum technical specifications:

Requirements	#	
Servers will be no more than 8U	58	T
Server will be loaded with Microsoft Windows 2003 enterprise Edition	59	T
Servers will have a minimum of 10 GB of RAM	60	T
Servers will contain at least 4 hard drives	61	T
All hard drives will be the largest and fastest capacity currently supported by the offeror at time of award	62	P
Drive 1 will mirror drive 2	63	T
Drive 3 will be configured as a global hot spare	64	T
Drive 4 will be configured as a global hot spare	65	T
Each server will contain 2 RAID controllers 1 active and cabled to all 4 drives a second inactive card that drives can be moved to should card 1 fail	66	T
Each server will contain redundant, hot swappable power supplies	67	T
Each server will support remote management	68	P
Each server will accept shutdown commands from the power management and distribution system with adequate time to execute the shutdown process just prior to battery drain	69	P
Each Server will continuously report its health to the enterprise server management system	70	P

Each server will alert the enterprise server management system when its operational conditions fall outside the range of acceptable conditions	71	P
Each server will be imaged onto a separate hard drive partition from the partition on which the OS is loaded	72	T
Each server will be capable of 4 way clustering	73	P
No optional or advanced services will be loaded with the operating system	74	T
Each server will be configured as a stand alone server unassociated with any domain (AD and other services will be installed later)	75	T
Each server will contain a configured boot partition		T
Each server will contain 2 Fiber GIG E NICs unless otherwise specified	76	T
Each Server will contain 1 serial port (2 preferred)	77	T
Each server will contain 2 USB ports	78	T
Each server will contain 8 32 bit processors	79	T
Each processor will be the fastest currently supported	80	P
The Cluster of 4 servers per farm will support Oracle 9i enterprise edition	81	P
Each server will contain a total of 2 FC ports on separate cards at 2Gbps	82	T
Each server will contain 1 DVD RW drive	83	T
Each server will contain 1 floppy drive	84	T
Each server will use a Hard Drive – CD – Floppy –PXE boot sequence that is interruptible	85	T
Each servers video card will support 1280 x 1024 resolution and 16.19 million colors	86	T

3.2.5 Special Requirements per Server by Number – Please refer to Diagram 1 to map servers to server number and rack. (Note Diagram 1 is not an authoritative, proposed or binding racking plan and is provided for clarity only) General minimum technical/performance requirements per server type apply unless superseded by these requirements.

Rack	Server Number	Requirement	#	
3	3 & 4	Each will have redundant 100baseT NICs teamed & connected to the DMZ switch	87	T
	5 & 6	Each will have redundant 10/100/1000baseT NICs teamed & connected to the DMZ switch	88	T
		Each will support 1 TB internal physical storage in a separate raid controller than the 4 drives supporting the OS	89	T
		Each will be loaded with Windows Server 2003 Web Server Edition	90	T
4	7&8	Each will be configured with 2 10/100/1000BaseT NICs teamed and connected to the Passport 8600 Internal switch	91	T
		Each will be configured with 2 FC Cards with 1 connection to each of the FC switches in the SAN	92	T
	9 & 10	Each will be clustered (clustering will be configured as part phase 2)	93	P
		Each will be configured with 2 1000baseF NICs teamed and connected to the Passport 8600 Internal Switch	94	T
		Each will contain 2 FC Cards with 1 connection to each of the SAN switches	95	T
6	Server Farm Printer	Will be a high-end color laser printer network attached to the Passport 8600 Internal switch using a 100BaseT connection	96	T
	11&12	Each will contain 2 1000BaseF NICs, but only 1 will be connected to the Passport 8600 Internal switch	97	T
7	13,14 & 15	Will be loaded with Windows Server 2003 standard edition and do not need to be able to support clustering	98	T
		Each will contain 2 10/100/1000BaseT NICs teamed and connected to the Passport 8600 Internal switch	99	T

		Each will contain 1 FC card 2 will be routed to SAN switch 1 and 1 will be routed to SAN switch 2	100	T
	16&17	Each will contain 2 1000BaseF NICs but only 1 will be connected to the Passport 8600 Internal switch	101	T
9	18,19, 20 & 21	Will be 4 way clustered (clustering will be configured as part of phase 2)	102	T
		Each will contain 2 1000BaseF NICS teamed and connected to the Passport 8600 Internal Switch	103	T
		Each will contain 2 FC Cards with 1 connected to SAN FC switch 1 and 1 connected to SAN FC switch 2	104	T
	Enterprise Distributed Backup System (1 per farm)	All servers except those in the DMZ must connect to the SAN or NAS and be able to fully backup all local storage to the SAN or NAS File System once per day and the process per server can not take longer than 1 hour per 100GB of local storage	105	P
		The Enterprise SANs at N1 (NAVEODTECHDIV) must be able to support full replication to an identical SAN at NAVSCOLLOD (N2) as quickly as can be supported using 5MBPS of bandwidth between N1 and N2 Note: this must be supported but implementation will be part of a follow on contract	106	P
		The enterprise SAN at N1 must backup/replicate their file systems to the NAS file system at the gateway (25% per gateway) as quickly as can be supported using half a T1 connection between N1 and the gateway Note: this is a distributed backup solution	107	P
		Backup solution must support being both file based and snapshot drive based (Servers need only support file based backup)	108	P
		Where file based backup occurs the backup of open files must be supported	109	P
		Enterprise backup solution must subscribe to the enterprise management solution	110	P
		An enterprise backup test plan must be supplied as part of the proposal	111	
		A server farm backup plan must be provided with the proposal	112	

Additionally the following ancillary equipment must be provided (refer to the Gateway RP spreadsheet for technical specifications)

Nortel Passport 8300 Series perimeter switch (identical to the ones for the gateways, see Gateway RP passport 8300 tab for tech specs) QTY 2 (1 NIPR and 1 SIPR)

L3 Red Eagle VPN gateways (identical to the ones for the gateways, see Gateway L3 Red Eagle tab for tech specs) QTY 4 (2 NIPR and 2 SIPR)

Nortel Alcon Firewalls (identical to the ones for the gateways, see Nortel Alcon tab for tech specs) QTY 4 (2 NIPR and 2 SIPR)

Nortel Baystack DMZ Switch (identical to the ones for the gateways, see Gateway RP Baystack tab for tech specs) QTY 2 (1 NIPR and 1 SIPR)

3.3 Storage Requirements

3.3.1 Storage Area Network (SAN) – Quantity 2 (1 per farm) A new SAN shall be implemented that meets the following requirements.

Requirements	#	
SAN shall be 80 Terabytes in usable capacity and support Raid 5	113	T
SAN architecture must be scalable to 1000 Terabytes usable capacity and support Raid 5	114	T
All Firmware, software and components must have the most current update	115	T
SAN must contain at least 2 FC Switches	116	T
SAN must be configured to provide 100% redundant FC paths	117	P
SAN must contain 100% redundant controllers	118	P
SAN must contain 100% redundant cache of the largest size currently supported	119	P
SAN components must contain 100% redundant hot swappable power supplies with adequate UPS	120	P
SAN must be monitored by the Enterprise Management System	121	P
SAN must support the primary and redundant connection of at least 24 servers (switching and cabling must be included with the network maps and cabling plan)	122	P
SAN must be 100% Fiber Channel at the fastest speed supported	123	P
Must be an all new solution to include 100% redundant paths and all SAN hardware must have as much redundancy built in as can be currently supported (i.e. controllers, switches, power supplies, cache) . Existing SAN cannot be leveraged as part of this solution	124	P

3.4 Rack Requirements – All racks shall meet the following minimum technical specifications:

Requirements	#	
Each rack containing at least 1 server will contain 1 KVM unit	125	T
Each KVM unit will support all of the servers in that rack	126	P
Each KVM unit will support keyboard based switching between servers	127	T
Each KVM unit will contain a 17" flat panel TFT display that supports 1280 x 1024 resolution and 16.19 million colors	128	T
Each KVM unit will be no more than 1 U	129	T
Each KVM unit will use a miniature trackball, not track pad or stick mouse	130	T
Each Trackball will support the 2 button (right and left click) configuration	131	P
All racks will be the same color	132	P
All racks will be either opal (off white) grey, navy blue, graphite, or black	133	P
All components in the rack will be the same color as the rack	134	P
All open space in the front of the rack will be covered using metal spacers	135	P
The front door of the rack will be lockable and TRANSPARENT or grated allowing at least 60% visibility (tinted Plexiglas or glass is acceptable)	136	P
Any side doors to the rack will be lockable	137	P
The sides of all racks will be closed	138	P
The back of the rack will be closed but allow for adequate ventilation	139	P
Each rack will contain adequate active or passive ventilation for the equipment contained therein (Racks do NOT need to be environmental filtered)	140	P
Each rack will contain an internal cable management system	141	P
All servers will be rail mounted	142	P
All servers will have cable guides that will support the exposure of the server on its rails	143	P
All racks will support access to all hardware elements without the components being physically removed from the rack	144	P
All racks will be the same height and depth	145	P
All racks will support 28" FUNCTIONAL SERVER depth	146	T
All racks will support at least 42U of Height	147	T
Each rack will contain an internal power distribution system that plugs into an upstream power distribution rack and will support 30% power capacity expansion	148	P
All KVM switches in the rack will be connected to an upstream KVM unit for the entire farm	149	P

where switching will be based on rack then server		
Each Server farm will contain a 60" plasma display fed by the upstream KVM unit that supports at a minimum 1280 x 1024 resolution and 16.19 Million colors	150	P
Each server farm will contain a keyboard and mouse fed by the upstream KVM unit	151	P
Each rack will contain at least 6U of empty expansion space	152	P

3.5 Spare Parts Kit Requirements – The following denotes required spare parts kits and the requirements for these kits;

Requirements	#	
Every server will have 1 spare parts kit	153	P
Each kit will enclosed in a semi rugged, transportable case	154	P
Each kit will be labeled by rack and parent server	155	P
Each kit will protect all contents using foam matting	156	P
Each part will be enclosed in an anti-static bag	157	P
Each kit will include a spare power supply	158	P
Each kit will include 2 spare RAM chips	159	P
Each kit will include 1 spare hard drive	160	P
Each kit will include 1 spare RAID controller (unless controllers for the server are embedded on the mother board)	161	P
Each kit for a server containing FC cards will include 1 spare FC card	162	P
Each kit for a server containing a Fiber GIG E NIC will include 1 spare NIC	163	P
Each kit for a server containing a Copper GIG E NIC will include 1 spare NIC	164	P
Each kit will include any other items deemed appropriate by industry best practice or items known to have over a 75% failure rate	165	P
Each kit will include an anti-static grounding strap	166	P
Each kit will include any special tools required for server access and or part replacement	167	P
Each kit will contain a bound paper copy of all technical documentation for the server and all additional parts therein.	168	P
Each kit will contain a spare parts list for the associated server and contact information for obtaining these parts directly from the manufacturer	169	P
Each kit will contain an electronic copy of all technical documentation on CD or DVD for the server and all additional parts therein in a format approved by the COR.	170	P
Each kit will contain a copy of the applicable warranty information for the server and all additional parts therein	171	P
Each kit will contain a copy of the applicable enterprise service agreement information for the server and all additional parts therein	172	P
Every rack will have 1 spare parts kit (for rack and racking equipment only)	173	P
Each kit will be labeled by rack number	174	P
Each Kit will contain a spare KVM switch	175	P
Each kit will contain a spare KVM switch to server cable	176	P
Each kit will contain a spare KVM switch to KVM unit cable	177	P
Each kit will protect all contents using foam matting	178	P
Each kit will include any other items deemed appropriate by industry best practice	179	P
Each kit will include an anti-static grounding strap	180	P
Each kit will include any special tools required for rack access and or part replacement	181	P
Each kit will contain a bound paper copy of all technical documentation for the Rack and all additional racking components therein.	182	P
Each kit will contain a spare parts list for the rack and contact information for obtaining these parts directly from the manufacturer	183	P
Each kit will contain an electronic copy of all technical documentation on CD for the rack and all additional racking components therein	184	P
Each kit will contain a copy of the applicable warranty information for the rack and all additional racking components therein	185	P

Each kit will contain a copy of the applicable service agreement information for the rack and all additional racking components therein	186	P
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3.6 Physical Installation Requirements

3.6.1 Racks –

Requirements	#	
NIPRNET Server farm racks will be physically installed and cabled at NAVEODTECHDIV Building 2172 in Room 119 as per an approved racking plan	187	P
SIPRNET Server farm racks will be physically installed and cabled at NAVEODTECHDIV Building 2172 in Room 115 as per an approved racking plan	188	P

3.6.2 Hardware –

An empty (per server farm (total of 2)) rack that matches the other racks provided will be an additional CLIN.

3.6.3 Power – power management and distribution racks

Requirements	#	
Each farm will contain power management and distribution racks	189	P
Racks will conform to the requirements set forth in the rack section	190	P
Backup Library must have its own free standing UPS unit	191	P
The SAN must have its own free standing UPS unit	192	P
All power distribution racks will provide power conditioning, filtering and surge suppression	193	P
Each rack will provide 45 minutes of battery power for the equipment in all connected downstream racks	194	P
Racks will be engineered to the power requirements of the racks they support with room for 30% capacity expansion	195	P
Due to the possible weight of these racks once configured, they may be configured ON-SITE at NAVEODTECHDIV; however, their design and specs must be pre-approved and on-site testing will determine acceptance	196	P
If configured on-site all components must be delivered as per the requirements under the deliverables section	197	P
Power distribution racks need to support A/B power from the distribution rack to all rack equipment	198	P
Each power distribution rack will support no more than 2 downstream equipment racks	199	P

3.6.4 Cable Management & Labeling

Requirements	#	
Inter-rack cable management system must be free standing and conform to Diagram 3	200	P
Inter-rack cable management system must route data cables high	201	P
Inter-rack cable management system must route power cables low or if routed high must electromagnetically insulate power and data from each other	202	P
Inter-rack cable management system cannot be bracketed to the wall or ceiling	203	P
Inter-rack cable management system must run between and above all racks as per Diagram 3	204	P
Inter-rack cable management system must be open mesh basket conduit based to support the free breakout of cables from the management system to the internal rack management system	205	P
All cables supporting the equipment under this procurement must be properly labeled on each end just prior to the connector and must denote source and destination rack, equipment number and port number (to include patch panel and port number)	206	P
All equipment must be labeled by number on the front and back	207	P
All racks must be labeled by number on the front and back by using an engraved metal plate label	208	P

All equipment ports must be labeled by number	209	P
All cables between racks will run from equipment to patch panel in the same rack; then patch panel to a patch panel in the destination rack then to destination equipment	210	P
All inter-rack cabling will be shielded and plenum based	211	P
All fiber cables between racks will be 4 strand multi-mode fiber (2 strands active and 2 spare)	212	P
2 strand (Zip cord) will only be used internally to the rack between equipment or equipment to patch panel in the same rack	213	P
All fiber patch panels will use ST or SC connectors or to miniaturize and save space M/T-RJ connectors are acceptable but cost must be justified	214	P
All data cabling between racks in the NIPRNET Farm will be GREEN	215	P
All data cabling between racks in the SIPRNET Farm will be RED	216	P

3.7 Technical Support Requirements

Requirements	#	
The contractor will pre-register, and where applicable, activate all delivered hardware and software components before delivery, and associate all components with a site technical support agreement	217	P
For software requiring activation or registration that is either not preinstalled or preconfigured, the vendor will deliver the activation codes with the component (the customer will not be burdened with registration or activation of any component)	218	P
All components will be registered to FIRST NAME= JEODNET LASTNAME= CIO ADDRESS= 2008 Stump Neck Rd, Indian Head, MD 20640 PHONENUMBER= 301-744-4061 EMAIL= Trouble.Call.Desk@JEODNET.mil No other information can be provided during the registration process without specific prior approval from the COTR	219	P
All delivered components will fall under a 5 year on-site enterprise service agreement for JEODNET	220	P
The onsite address for the components under this phase for the service agreement will be NAVEODTECHDIV 2008 Stump Neck Rd, Indian Head, MD 20640, 301-744-4061	221	P
The Enterprise service agreement will have a 4 hour maximum on-site response time from the point of initial contact between JEODNET and the service organization	222	P
The Enterprise service agreement will specify overnight same day shipping for repair and replacement parts BEFORE the return of the defective or broken part	223	P
Warranty coverage for all components will be extended to a 5 years	224	P
Warranty coverage will begin upon initial acceptance of ALL components (material CLINs) under this phase of procurement (Note – final acceptance will not occur until phase 2)	225	P
Service Agreement Coverage will begin upon delivery of components to NAVEODTECHDIV as per the delivery requirements	226	P

4.0 Deliverables

Deliverable	Scheduled Delivery Date
Material racks prefabricated with all equipment as per the approved racking plan and sections 4.2 and 4.3 of this SOW	45 calendar days from receipt of purchase order for the CLIN representing that rack
Applicable Software/Hardware Licenses and activation codes organized and delivered with original installation media (and a master listing of all installation and activation codes) as a package	End of phase 1 (10 working days from the delivery of all racks procured by CLIN under this phase), a working copy of installation media with installation /activation codes will be delivered with the rack containing the equipment upon which the software/component is installed

Template for delivery of final support documentation for approval	30 calendar days from contract award
Final Support documentation as per section 4.1	10 working days from the completion of phase 1
Intra-Rack Cable Management System	45 calendar days from contract award
Spare Parts Kits	10 working days from initial acceptance of the rack (CLIN) to which they pertain
Engineering Meeting Minutes	As Required
Engineering Artifacts	As Required/Requested
Server Baseline Configuration per server type for pre-approval	15 working days from contract award

4.1 Support Documentation Requirements – The following support documents are required to support this task and delivery:

Requirements	#	
Technical specification documentation must be delivered in PDF format for all materials and components thereof	227	P
Rack configuration maps must delivered in HTML format	228	P
Rack configuration maps must link to server and equipment configuration maps in HTML format	229	P
Final server and equipment configuration maps must link to the technical specs of each piece of equipment and any additional parts	230	P
Cable diagrams must be provided per server farm	231	P
All technical documentation delivered electronically must be on CD/DVD-ROM and delivered to both the JEOD-KTOD-ACTD CTO	232	P
Electrical Diagrams must be provided per server farm	233	P
A template for development and delivery of all final maps, diagrams and tech specs must be pre-approved before final delivery	234	P
Final Component Baseline Configuration Documentation (broken down by rack, Hardware/software and element) must be provided	235	P
A final storage and FS map must be provided per server farm	236	P

4.2 Materials Pre-Inspection Requirements

Requirements
All fully configured racks per CLIN will be pre-inspected by the offeror and COR prior to shipment or should physical discrepancies be found pertaining to rack configuration or the condition of the rack and its components, the vendor will assume all costs associated with the return of the rack, component or on-site correction of the discrepancy
Racks shall be inspected at the fabrication point

4.3 Materials Delivery Requirements

Requirements
Only appropriate JEOD representatives can sign for delivery when items delivered to NAVEODTECHDIV (list of approved representatives will be provided by the government)
Under NO circumstances can a government contractor sign for final delivery of any items to NAVEODTECHDIV
Under NO circumstances will signed delivery be considered acceptance
All racks with the possible exception of power distribution racks will be prefabricated with all components (racking, cable management, intra rack cables, servers and other hardware), except for those preinstalled components indicated in Diagram 1 that the vendor is not responsible for.
All materials should be addressed to:

ITC (SW) Robert J. Gaskill
ACTD DET BLDG 2172
NAVEODTECHDIV
2008 Stump Neck RD
Indian Head MD 20640
For final delivery to NAVEODTECHDIV

In the event of the demise of the contractor, the contractor shall make available to the Government the documentation/data rights necessary to produce and support the current delivered components as well as spare and repair parts.

4.4 Labor

The government accepts the fact that certain installation tasks cannot be completed therefore final acceptance tests cannot be conducted until the current server farms are set out of service and the migration phase set forth under phase 2 (option 1) of this SOW is executed. In lieu of this fact, the following concessions must be made by the government;

Labor required for the completion of phase 1 while executed and charged during phase 2 will not be drawn from the pool of labor required to meet the requirements of phase 2 as these efforts overlap but are not intertwined.

5. Phase 2 Tasks, Requirements and Deliverables

- 5.1 Tasks - The contractor shall deliver the materials outlined in this phase, and will provide 300 hours worth of on-site technical support to assist the government with the migration of all data, services and applications currently residing on the 2 existing server farms onto the 2 new farms covered under phase 1. Labor in support of phase 1 tasks shall not be applied against this pool of labor.
- 5.1.1 Data Migration - The contractor will assist with the development, planning and implementation of the logical configuration of all storage and backup systems within both server farms. This effort will be coordinated with JEODNET System Administrators. The configuration and implementation plans for these systems must be approved by the JEOD-KTOD-ACTD CTO prior to implementation. The contractor will assist JEODNET System Administrators with the physical migration of data from existing storage systems onto the new systems covered under section 2, and will assist with placing the old systems out of service. The contractor will document the final configuration of all storage and backup systems prior to final acceptance and perform acceptance testing with JEODNET System Administrators. Only the JEOD-KTOD-ACTD CTO can sign for final acceptance
- 5.1.2 Service/Application Installation - The contractor will support JEODNET System Administrators with the installation and migration of advanced services and applications from the old server farms to the 2 new farms covered under phase 1 and the removal of the old server farms from active service. The contractor is not responsible for designing the implementation of these services/applications however, the contractor is responsible of assisting the government with the migration of these services/applications from the old farms to the new farms under the supervision and direction of JEODNET System Administrators. These Services/Applications include
- DNS
 - DHCP
 - Certificate Services
 - Exchange Server 2003
 - Oracle 9i
 - SQL 2000
 - RIS
 - Active Directory
 - RAS
- 5.1.3 Final acceptance of Phase 1 - The contractor is responsible for installing services and applications set forth in phase 1 but deferred to this phase, and conducting all final acceptance test that could not be performed during phase 1 due to incomplete configuration. Final acceptance for all phase 1 materials and tasks will occur during this phase as per the approved acceptance plan. The government shall not be charged for labor related to this task and the hours required to complete this task will not count against the 300 hour pool. Installation and configuration hours required to enable the completion of this task must be charged against the applicable phase 1 CLIN. Should the government choose not to exercise option 1 initial acceptance under phase 1 will be considered final acceptance
- 5.1.4 Update Support Documentation - The contractor shall update all support documentation to reflect the server and service configuration additions / changes that occurred during phase 2.

5.2 Materials & Requirements – The following software shall be provided under this phase

Oracle 9i Enterprise – 2 licenses
Microsoft Exchange Server 2003 Enterprise Edition – 2 licenses
Microsoft SQL Server 2000 Enterprise Edition – 2 Licenses

5.3 Deliverables

Deliverable	Scheduled Delivery Date
Software Licenses	10 working days from DO per CLIN
Final SAN Configuration Documentation	10 working days from end of phase 2
Final Acceptance Test Documentation	10 working days from the end of phase 2
Updated Equipment Configuration Documentation	10 working days from the end of phase 2
Updated Rack configuration maps	10 working days from the end of phase 2
Meeting Minutes	As required

5.4 Labor - the following labor categories are anticipated to support solution engineering and materials installation during this phase of procurement. Refer to the Key Personnel Qualifications document for a list of minimum qualifications per category

- System Administrator – Storage Solutions Specialist
- Network Engineer – MSCE
- Project Manager

6. Phase 3 Tasks, Requirements and Deliverables (Option D)

6.1 Tasks

6.1.1 The contractor will architect, implement and operationally test an enterprise management system for both JEODNET's NIPRNET and SIPRNET enclaves as per the requirements set forth in this section.

6.1.2 The contractor will architect, implement and operationally test an enterprise intrusion detection system for JEODNET's NIPRNET enclave only, as per the requirements set forth in this section

6.2 Requirements

6.2.1 Enterprise Management System

Requirements	#	
Enterprise management software shall be capable of monitoring the status of all equipment covered by phases 1 and 4 and software covered phases 1, 2 and 4 of this SOW	237	P
System will be capable of monitoring and managing equipment at other nodes	238	P
System will not use SNMP to monitor items covered by phase 1 and 4	239	P
System will be capable of using SNMP to monitor equipment not covered by this procurement	240	P
System will consist of an intuitive visual UI for displaying a network map and the status of the equipment on that map	241	P
System must be demonstrated to and approved by the JEOD-KTOD-ACTDs CIO prior to procurement	242	P
System must be capable of monitoring Oracle 9i	243	P
System must be capable of monitoring Exchange Server 2003	244	P
System must be capable of monitoring all variants of Microsoft Windows Server 2003 covered by phases 1 and 4	245	P
System must be capable of monitoring SQL 2000 server	246	P
System must be capable of monitoring network traffic and saturation	247	P
System must be capable of monitoring the power distribution racks	248	P
System must be compatible with ALTIRIS for managing and monitoring workstations	249	P
System must be capable of establishing service maps and monitoring the services provided by JEODNET	250	P
System must contain or be able to feed upstream help desk service related software	251	P
Support agreements will conform to section 3.7	252	P
System must be capable of audit log reduction	253	P

6.2.2 Intrusion Detection

Requirements	#	
System must be able to query, concatenate and analyze the activity of various system event and security logs	254	P
System must be able to profile network activity	255	P
System must be able to match network attack activity profiles to actual network activity	256	P
System must be able to detect intrusion related activity	257	P
System must be able to initiate configurable responses to suspected attacks or intrusion activity	258	P
System must support tiered levels of response	259	P
System must be capable of remote notification of SYS ADMIN personnel	260	P
System must support evidence collection pertaining to intrusion activity	261	P
System must be capable of initiating hostile/active responses to and toward entities conducting a	262	P

suspected attack		
System must be demonstrated to and approved by the JFOD-KTOID-ACID's CTO prior to procurement	263	P
Support agreement will conform to section 3.7	264	P
System must be capable of audit log reduction	265	P

6.3 Deliverables

Deliverable	Scheduled Delivery Date
Enterprise Management System	30 calendar days from the time the DO is issued for the CLIN
Enterprise Management System Modules	7 calendar days from the time DO is issued for the CLIN
Intrusion Detection System	30 calendar days from the time the DO is issued for the CLIN
Intrusion Detection System Modules	7 calendar days from the time the DO is issued for the CLIN
Support Documentation for the Enterprise Management System and Intrusion Detection System	5 working days from the completion of phase 3
Configuration Documentation for the Enterprise Management System and Intrusion Detection System	5 working days from successful completion of the Operational Acceptance Test
Meeting Minutes	As required
Architecture/Engineering Artifacts	As required or requested

Sections 4.2 and 4.3 apply to all deliverables under this phase.

7. Phase 4 Tasks, Requirements and Deliverables (Option II)

7.1 Tasks - The contractor will deliver, install (on-site) and baseline configure materials for 4 regional gateway sites (each site having a NIPRNET and SIPRNET Implementation) as outlined by the following requirements.

7.2 Requirements

7.2.1 Gateway Implementation (Note: Each gateway contains a physically separate but identical NIPRNET and SIPRNET implementation. All implementations at all gateway node locations are to be identical. For clarity this means there will be 8 actual implementations. These requirements define the minimum technical specifications for 1 implementation as all 8 are to be the same)

Requirements	#	
Each implementation must fit in no more than 2 42U high rack with a 28" FUNCTIONAL SERVER depth	266	P
Rack must comply with section 3.3 with the exception of upstream KVM & Power management requirements	267	P
Rack must contain a UPS unit that is capable of providing 45 minutes of battery line, power distribution, conditioning and surge suppression for all equipment in the rack	268	P
Each rack must contain 2 24 port 100baseT Nortel Bay Stack switches (or better) that are capable of port teaming refer to Gateway RP spreadsheet	269	P
Each rack must contain 2 Nortel Alteon Firewall devices refer to Gateway RP spreadsheet	270	P
Each firewall device must use checkpoint firewall software and subscribe to the enterprise firewall management software at NI	271	P
Each rack must contain 2 (NSA Certified) SafeNet Red Eagle HA/PP VPN gateway devices refer to Gateway RP spreadsheet	272	P
Each VPN gateway device will subscribe to enterprise VPN management software at NI	273	P
Each rack must contain type 1 servers in conformance with section 3.1.2 refer to gateway RP spreadsheet for quantity	274	P
Each rack must contain type 2 servers in conformance with section 3.1.3 refer to gateway RP spreadsheet for quantity	275	P
Requirement removed	276	P
Each rack must contain 1 NAS system with a minimum of 4 TB Usable capacity (scalable to 6TB Usable)	277	P
NAS can be either Fiber Channel or ATA and must support Raid 5	278	P
NAS must contain redundant power supplies for all components	279	P
NAS Raid controller must contain redundant cache of the largest capacity supported	280	P
NAS must connect using 100% redundant paths to the type 1 server cluster and type 2 server	281	P
All servers will attach to their appropriate switch (information to be provided after contract award) using 2 100baseT teamed NICS	282	T
Spare parts kits must be provided as defined under section 3.4	283	P
Cable labeling and management must conform to section 3.5.4	284	P
All Hardware must be physically installed and cabled within the rack	285	P
All materials must be covered by technical support and warranties as defined in section 3.6	286	P
Each implementation must make use of enterprise management system and enterprise intrusion detection system as defined in section 6	287	P

7.3 Deliverables

Deliverable	Scheduled Delivery Date
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N3.1 NIPRNET Gateway Node	45 calendar days from issue of DO against this CLIN
N3.1 SIPRNET Gateway Node	45 calendar days from issue of DO against this CLIN
N3.2 NIPRNET Gateway Node	45 calendar days from issue of DO against this CLIN
N3.2 SIPRNET Gateway Node	45 calendar days from issue of DO against this CLIN
N3.3 NIPRNET Gateway Node	45 calendar days from issue of DO against this CLIN
N3.3 SIPRNET Gateway Node	45 calendar days from issue of DO against this CLIN
N3.4 NIPRNET Gateway Node	45 calendar days from issue of DO against this CLIN
N3.4 SIPRNET Gateway Node	45 calendar days from issue of DO against this CLIN
Support documentation as per section 4.1	10 working days from acceptance of node implementation.
Meeting Minutes	As Required
Engineering / Architecture Artifacts	As required / requested
Applicable Software/Hardware Licenses and activation codes organized and delivered with original installation media (and a master listing of all installation and activation codes) as a package	45 Calendar days from issue of DO against the associated gateway node CLIN
Cable Labeling Plan for final approval	10 working days from contract award
Template for delivery of final support documentation for approval	10 working days from contract award
Spare Parts Kits	60 calendar days from issue of DO against the associated gateway node CLIN

Sections 4.2 and 4.3 apply to all deliverables under this phase with the exception of the delivery address. Materials will be shipped directly to the gateway sites. Addresses will be provided to the contractor when this option and the appropriate CLINs within are exercised/procured by the government.

7.4 Labor – the following labor categories are anticipated to support solution engineering and materials installation during this phase of procurement. Refer to the Key Personnel Qualifications document for a list of minimum qualifications per category.

- System Administrator – Storage Specialist
- System Administrator – Server Hardware Specialist
- System Administrator - General
- Network Engineer – MSCE
- Project Manager

- 8.0 Government Furnished Property/Material (GPM/GFM) - The government will furnish publications, forms and other documentation as necessary for the contractor to perform under this Statement of Work. If the contractor works on government site, the government will provide paper and other consumable office supplies used at government facilities. If the contractor works on the government site, the government will make available for contractor use furnishings, computer and networking capabilities, and service provider agreements to support the tasks described in this SOW. Aspects of the JEODNET are classified. Upon verification of contractor clearances, the government will provide access on a need to know basis to information. The highest level of classified information pertaining to the JEODNET is Secret.
- 9.0 Security - The highest level of classified information processed by the JEODNET is Secret. All Contractor Personnel shall be US Citizens moreover, they shall speak English fluently. Additionally all personnel associated in any way with any task covered by this SOW will possess at a minimum secret level clearance upon task start date.
- 10.0 Hours will normally be 8 hours per day, 5 days per week, and may include Government holidays. Contractor personnel shall not work more than 40 hours per week however, work may be conducted during any time of the day therefore a 9a-5p schedule is not implied nor will work performed outside these hours be grounds for overtime.
- 11.0 Travel - Travel to NAVEODTECHDIV and overseas will be required. Personnel assigned to overseas travel shall be fluent in English, able to gain access to any country, and possess a current US passport. Travel is anticipated as follows

Phase 1 - Estimate adequate travel to support all on-site tasks at NAVEODTECHDIV

Phase 2 - Estimate adequate travel to support all on-site tasks at NAVEODTECHDIV

Phase 3 - Estimate adequate travel to support all on-site tasks at NAVEODTECHDIV

Phase 4 - Estimate travel adequate to support 1 week on-site to support the delivery and installation of material CLINS in the 4 regions stated under phase 4 (Asia Japan, Europe-Italy, Hawaii-Oahu, and the Middle East-Bahrain).

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

The following items are applicable to this modification:CONTINUATION PAGE

1. The following questions and answers regarding the subject solicitation are hereby provided:

Question #1: May we have a copy of the source file, presumably Microsoft Word, used to create the RFP in PDF format?

Answer #1: As noted in the pre-solicitation notice, copies of issued solicitations can only be obtained by downloading them from the IHDIV Contracts Division's web site.

Question #2: The following diagrams are referenced but not provided in the RFP: on page 70 diagrams 4 and 5; on page 73 diagram 1; on page 77 diagram 3; on page 79 diagram 1. May we have a copy of these and any other applicable diagrams?

Answer #2: Copies of these diagrams can be found at the end of this amendment. The diagrams may be used as follows:

Diagram 1 – Offeror may alter to increase efficiency as long as all requirements are met. Offerors must explain how the requirements are met.

Diagram 2 – Offeror may alter to increase efficiency as long as all requirements are met. Offerors must explain how the requirements are met.

Diagram 3 – Offeror may alter to increase efficiency as long as all requirements are met. Offerors must explain how the requirements are met.

Diagram 4 – Offeror may alter to increase efficiency as long as all requirements are met. Offerors must explain how the requirements are met.

GatewayRP.xls – Authoritative architecture for a gateway (2 per site with 4 sites (grand total 8)). This spreadsheet also illustrates the minimum information to be included in any generic racking plan. All switches, firewalls, UPS, and Red Eagle hardware must be used as and where specified (for specific model numbers see the technical documentation provided in the GatewayRP.xls document). Racks must be environmentally controlled, but Liebert racks are not required. Any offeror proposing a different rack must meet the technical specifications of the Liebert rack and illustrate how those specifications are met.

Rack Plans provided as part of the RFP are proposed plans. Offerors may alter the rack plans as long as all hardware is accounted for. Every offeror is responsible for providing their own rack plans for evaluation.

Question #3: May we perform a site assessment to update our information. If not, are the data center rooms ready for deployment, including all applicable power, HVAC, etc.?

Answer #3: The Government will conduct site surveys on 13, 14, and 15 December 2004 from 8:00 am until 12:00 pm each day. No more than one company will be permitted to attend the site surveys at a time and the surveys will be scheduled on a first requested, first scheduled basis. Site surveys cannot be attended by more than 10 offeror personnel or exceed 4 hours. Offerors shall register for the site surveys by providing their preferred date to Ms. Renee Brown at renee.m.brown@navy.mil.

The offeror shall provide the following information: company name, name(s) of attendee(s), social security number(s), citizenship, and clearance level(s). Ms. Brown will inform each offeror of the date of their site survey. Questions posed during the site surveys will be posted in an amendment to the solicitation at the conclusion of the surveys.

Question #4: The specifications for the Type 3 servers may be unnecessarily restrictive. Will the Government accept alternate products that will perform on par with specifications for the Type 3 servers?

Answer #4: Yes, but the offeror is responsible for clearly articulating how and why the proposed hardware exceeds the Government's requirements. If the RFP refers to an item by TYPE (type 1 server), the offeror is expected to map the type requirements to their product line. Where a specific piece of hardware is mentioned (the Red Eagle), that is not subject to interpretation and the offeror must propose the specific item(s) included in the RFP.

Question #5: Please provide more detail on the SAN storage such as: the requirement stipulates 80 TB scalable to 1000 TB. Is this raw or usable capacity? Are there specific RAID configuration requirements, e.g., RAID 1 or RAID 5? How much total storage will require fast disk access, i.e., Fiber Channel? How much total storage can utilize slower disks, i.e., ATA? How much total storage will be utilized for data snapshots and/or replication?

Answer #5: Please refer to the amended Statement of Work.

Question #6: What is the expected size of the backup sets described in section 3.2.5?

Answer #6: Please refer to the amended Statement of Work.

Question #7: There is mention in several sections of a Passport 8600 Ethernet switch. Is this switch pre-existing and to be configured by JEODNET, or should the offeror supply and install it? Also are there sufficient ports to support the proposed equipment?

Answer #7: The switch is pre-existing and will be re-racked under this contract. The Government is responsible for ensuring enough available ports exist. However, the contractor is responsible for articulating to the Government the number of available ports required.

Question #8: How much data needs to be migrated?

Answer #8: The contractor is responsible for supporting migration efforts but is not responsible for the overall success of data migration. The contractor is to provide the amount of storage specified in the amended Statement of Work.

Question #9: How many databases need to be migrated?

Answer #9: The contractor is responsible for supporting migration efforts but is not responsible for the overall success of data migration.

Question #10: What is the size of each database to be migrated?

Answer #10: The contractor is responsible for supporting migration efforts but is not responsible for the overall success of data migration.

Question #11: Does JEODNET have a preference of host-based migration or network-based migration?

Answer #11: The contractor is responsible for supporting migration efforts but is not responsible for the overall success of data migration. The Government will decide, prior to commencement of the migration phase, what migration type to use and expects the contractor to support the migration as outlined in the Statement of Work.

Question #12: What specific applications are to be migrated?

Answer #12: The contractor is responsible for supporting migration efforts but is not responsible for the overall success of data migration.

Question #13: What are the associated databases per application to be migrated?

Answer #13: The contractor is responsible for supporting migration efforts but is not responsible for the overall success of data migration.

Question #14: Can JEODNET confirm that all applications are compatible with Microsoft 2003 Server?

Answer #14: Yes.

Question #15: Will the current environment be replaced in its entirety or does JEODNET anticipate reuse of some existing equipment? If so, can JEODNET provide a list of any of that equipment?

Answer #15: The only equipment to be reused are the Nortel Passport 8600 Series backbone switches.

Question #16: How many total seats and devices are to be monitored by the Enterprise Management system at the total build out?

Answer #16: The scope of the proposed contract is for seats to cover all materials under this contract. Additional seats would be part of a follow-on procurement if determined necessary by the Government.

Question #17: Page 36 of the RFP lists a requirement for addressing a Notification of Potential Conflict of Interest, clause HQ L-2-0005, paragraph (e). What regulation or contract does this reference?

Answer #17: The referenced clause can be found at the end of this amendment.

Question #18: Reference section 3.6.3 - Would the Government allow a consolidated UPS solution, providing power to the entire room, rather than individual UPS as currently required?

Answer #18: If the solution accounts for all equipment and allows for the amount of growth set forth in the Statement of Work, then yes.

Question #19: Reference section 4.0 – Would the Government please provide further clarification of the requirements for server baseline configuration per server?

Answer #19: The contractor will be responsible for working with the Contracting Officer's Representative (COR) to establish a baseline hardware and software configuration per server and for documenting and generating images of each server as per the approved baseline configuration.

Question #20: Reference Volume I Offer Proposal – What steps and measures will the Government take to insure that the offeror is the actual engineer and manufacturer of at least 50% of the hardware and materials provided other than relying on the statement of the offeror?

Answer #20: The Government's evaluation team is familiar with all potential offerors. Additionally, if there is any question regarding the offeror's certification, an audit may be requested from the appropriate Government agency.

Question #21: Reference section 3.2 – This offeror proposes that the Government change the server requirements in sections 3.2.2, 3.2.3, and 3.2.4 to allow all servers to boot over the SAN and access all other disk drives via the SAN instead of requiring internal disk drives.

Answer #21: This solution places too much dependency on the SAN. All servers must be able to boot from a local drive.

Question #22: Reference section 3.2.4 Type 3 Servers – This offeror has been unable to find a server that meets the requirements for four (4) internal disk drives, while still meeting the other requirements of this section. Given the mission critical nature of these systems and the Government's desire for as little downtime as possible, this offeror proposes that the Government change the requirements for the Type 3 server to allow them to boot over the SAN and access all other disk drives via the SAN rather than use internal drives.

Answer #22: The requirements for type 3 servers have been amended. The contractor is responsible for mapping their technology to the requirements of the Statement of Work.

Question #23: If not otherwise specified, are all references to days assumed to be business days exclusive of Federal holidays?

Answer #23: Unless otherwise specified, all references are to calendar days.

Question #24: We respectfully request the opportunity to learn more about NAVJEOD and would like to conduct an on-site inspection at your earliest convenience. Please provide us with dates of availability.

Answer #24: Please see the answer to Question #3.

Question #25: What existing equipment will require re-racking? Please provide details.

Answer #25: Only the internal Passport 8600 switch will require re-racking. The successful offeror is required to provide the following hardware formerly listed as not covered under this procurement:

Nortel Passport 8300 series perimeter switch (identical to the switches for the gateways. See GatewayRP.xls passport 8300 tab for technical specifications). Two (2) switches are required (one NIPR and one SIPR) to replace the VPN Gateways formerly listed as not covered.

L3 Red Eagle VPN gateways (identical to the ones for the gateways. See Gateway L3 Red Eagle tab for technical specifications). Four (4) gateways are required (two NIPR and two SIPR) to replace the VPN Gateways formerly listed as not covered.

Nortel Alteon Firewalls (identical to the ones for the gateways. See Nortel Alteon tab for technical specifications). Four (4) firewalls are required (two SIPR and two NIPR) to replace the firewalls formerly listed as not covered.

Nortel Baystack DMZ switch (identical to the ones for the gateways. See Gateway RP Baystack tab for technical specifications). Two (2) are required (one NIPR and one SIPR) to replace the DMZ switch formerly listed as not covered.

Note: All hardware is to be covered by the enterprise service agreement as stated in the RFP.

Question #26: When referring to days, do you mean 30 calendar days or 30 business days?

Answer #26: Please see the answer to Question #23.

Question #27: The RFP mentions diagrams 1, 3, 4, and 5, but they were not included with the RFP. Would you please provide copies of these diagrams?

Answer #27: Please see the answer to Question #1.

Question #28: Section 3.3 Storage Requirements 3.3.1. The SAN shall be 80 Terabytes in capacity. Would you please advise whether this is usable storage or raw storage capacity? What RAID policy is anticipated for this storage, i.e., RAID 5, RAID 1?

Answer #28: Please refer to the amended Statement of Work.

Question #29: SAN must contain at least 2 FC switches. Would you please advise as to the number of servers that will be connected to this SAN?

Answer #29: Please refer to the amended Statement of Work.

Question #30: According to page 70, section 2.0 of the Statement of Work, diagrams 4 and 5 have been provided as a general overview of JEODNET CONOPS. The diagrams are not included in the RFP. I would like to request a copy of the diagrams to gain a better understanding of the JEODNET environment.

Answer #30: Please see the answer to Question #1.

Question #31: Could you clarify the following sub-paragraph: Statement certifying that the offeror is the actual engineer and manufacturer of at least fifty percent (50%) of the hardware and materials to be provided. Failure to provide this statement will render the offeror ineligible for award and the offeror's proposal will not be evaluated by the Government. Does this mean only equipment OEMs can be the prime

on this effort or does design and integration of multiple manufacturers' servers/switches/etc. qualify as being the actual manufacturer?

Answer #31: The above paragraph means that the offeror must be the OEM or have an OEM partnership covering at least 50% of the materials, IE servers, storage solutions, switches, etc. covered by this procurement. This does not apply to support equipment (i.e., racks) or equipment listed in the Statement of Work as ancillary.

Question #32: Is there any additional background information available, i.e., Industry Day briefings or attendee lists?

Answer #32: There is no additional background information available.

Question #33: Block 10 on page 1 of the RFP states that the requirement is unrestricted. However, NAICS code 541512 and a size standard of \$21 million is also provided in this block. Is this requirement unrestricted?

Answer #33: The requirement is unrestricted. The NAICS code and size standard noted in block 10 are provided so that offerors can correctly execute clause 52.212-3.

Question #34: We would like to request an extension of the proposal due date.

Answer #34: Please see amendment 0001 to the subject solicitation. Additionally, a new proposal due date will be established at the conclusion of the site surveys. The new proposal due date will be provided in an amendment to the solicitation.

Question #35: Section 5.2 Materials & Requirements – The following software shall be provided under this phase: Oracle 9i Enterprise – 2 licenses, Microsoft Exchange Server 2003 Enterprise Edition – 2 licenses, Microsoft SQL Server 2000 Enterprise Edition – 2 licenses. The Navy has a current licensing contract with Oracle and to obtain the best pricing through this contract, this vendor needs to know whether the Oracle 9i will be ship or shore based or both. Can the Government provide clarification as to whether the Oracle 9i users will be ship or shore based?

Answer #35: This is not a Navy program. It is a joint program. Navy license agreements do not apply.

Question #36: There are two ways to license the Oracle database, 1st) named user and 2nd) per processor. It has to be one or the other. If the government desires the Named User License this vendor will need to know how many users are in the population of that system, if we are licensing by the processor then an unlimited user population could access the data. Can the government clarify whether it wants per processor licensing or Named User Licensing?

Answer #36: This is not a Navy program. It is a joint program. Navy license agreements do not apply.

Question #37: Microsoft also has several types of licenses available for both Microsoft Exchange Server 2003 Enterprise Edition and Microsoft SQL Server 2000 Enterprise Edition. Can the government clarify, by providing the Microsoft part number, which type of licenses they require for both the Microsoft Products. Does the government require any CALs for these Microsoft products?

Answer #37: This is not a Navy program. It is a joint program. Navy license agreements do not apply.

Question #38: Section 3.7 Technical Support Requirements. It is apparent that the Government wants the warranty extended to 4 years with a 4 hour response window. This vendor requests clarification on the coverage window, e.g., does the Government require 24x7 or 9x5 or some other window of coverage? Also is this coverage for 365 days per year or just Monday through Friday?

Answer #38: Coverage shall be provided 24x7, 365 days per year.

Question #39: This vendor was unable to find any attached DD 254 forms. Is the Government going to supply the DD 254 clearance forms?

Answer #39: The DD 254 can be found at the end of this amendment.

Question #40: For hardware maintenance service pricing and responsiveness capability, where specifically (city/base) in Japan, Italy, and Bahrain will the equipment be located?

Answer #40: The Government cannot provide that information at this time.

2. The revised Statement of Work found at the end of this amendment is hereby incorporated into the subject solicitation. The revised Statement of Work shall be substituted for Addenda 21 to clause 52.212-4.
3. Clause HQ L-2-0005 is hereby incorporated as Addenda 23 to clause 52.212-4. The text of this clause can be found below:

HQ L-2-0005 - NOTIFICATION OF POTENTIAL ORGANIZATIONAL CONFLICT(S) OF INTEREST (NAVSEA) (JUN 1994)

(a) Offerors are reminded that certain existing contractual arrangements may preclude, restrict or limit participation, in whole or in part, as either a subcontractor or as a prime contractor under this competitive procurement. Of primary concern are those contractual arrangements in which the Offeror provides support to NAVEODTECHDIV, or related laboratories (if applicable), in support of operation of the office or any of its programs. General guidance may be found in FAR 9.505; however, this guidance is not all inclusive. The Offeror's attention is directed to the "Organizational Conflict of Interest" (or similar) requirement which may be contained in current or completed contract(s) which prohibits the prime or subcontractor from providing certain supplies or services to the Government as described above during the period of the current "support" contract(s) or for a period after completion of the "support" contract(s). Notwithstanding the existence or non-existence of an Organizational Conflict of Interest (OCI) clause or similar requirement in current or completed contract(s), the offeror shall comply with FAR 9.5 and identify whether an OCI exists and not rely solely on the presence of an OCI requirement.

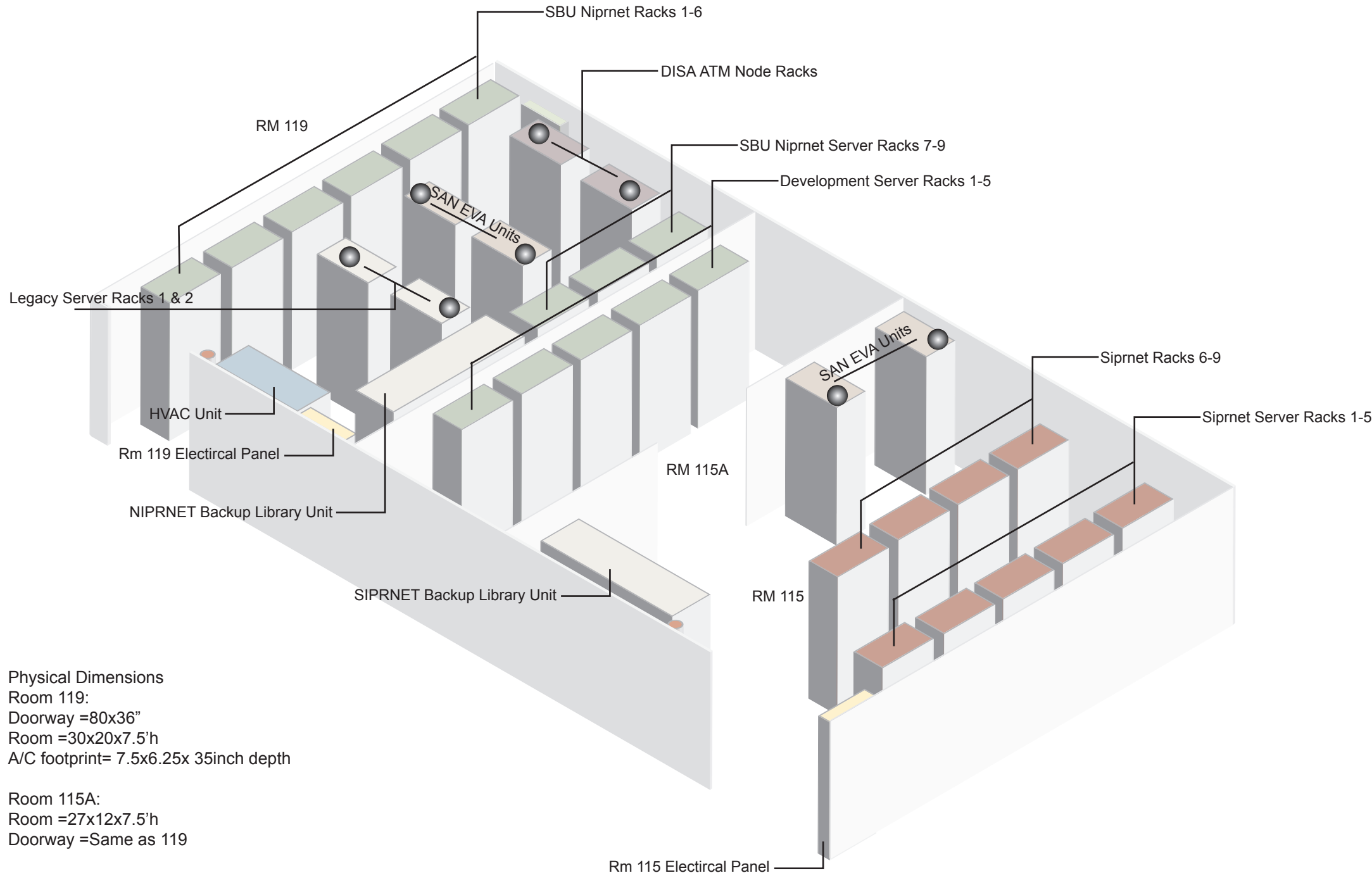
(b) If a potential conflict of interest exists at any tier, each potential prime offeror is requested to notify the Contracting Officer within 14 days of the date of this solicitation. The Offeror shall provide: (1) the contract number and name and phone number of the Contracting Officer for the contract which gives rise to a potential organizational conflict of interest; (2) a copy of the requirement; (3) the statement of work (or technical instruction) from the existing contract; (4) a brief description of the type of work to be performed by each subcontractor under the competitive procurement; and (5) any additional information the Contracting Officer should consider in making a determination of whether a conflict of interest exists. The Government may independently verify the information received from the offeror. Notwithstanding the above, the Government reserves the right to determine whether a conflict of interest exists based on any information received from any source.

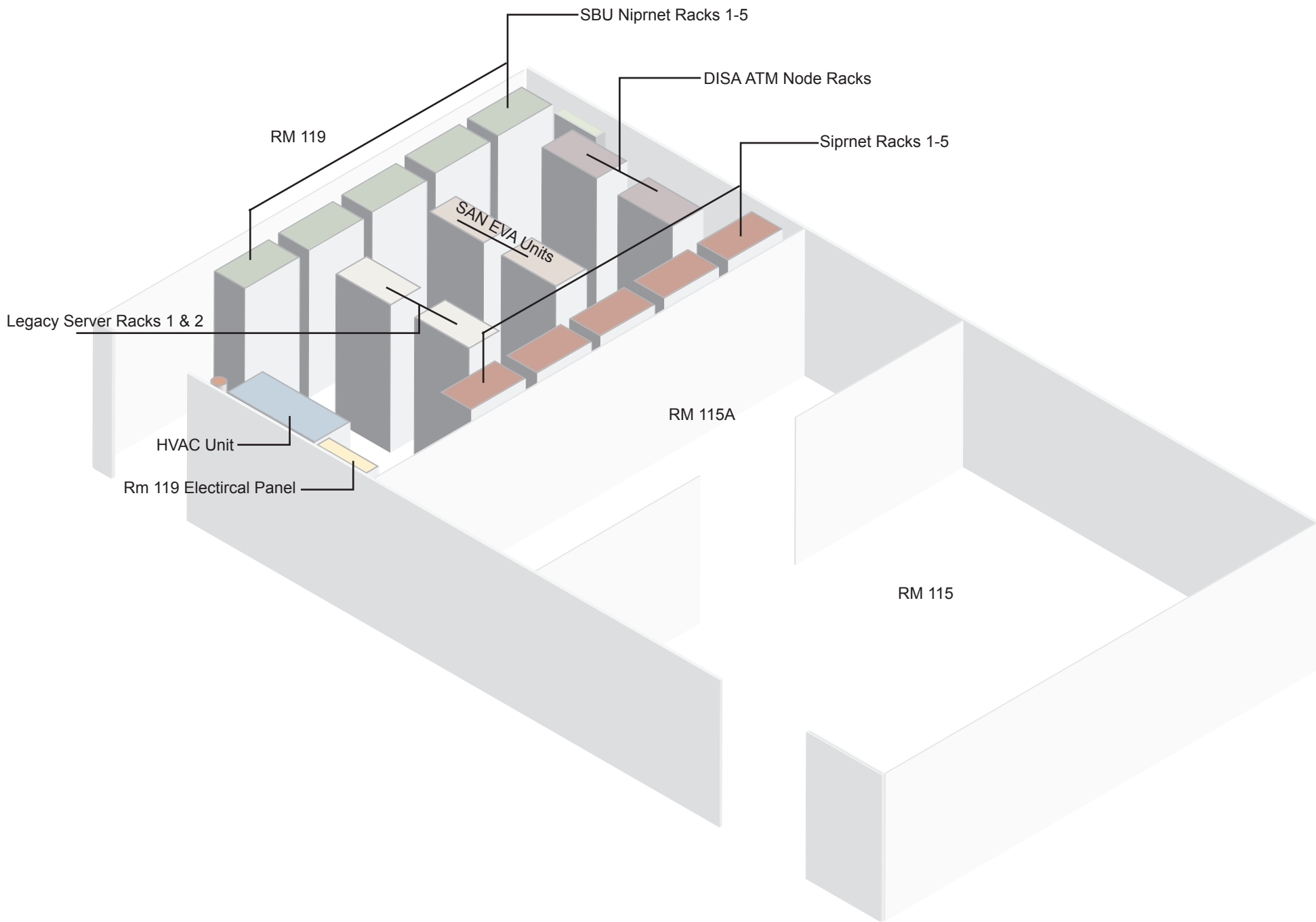
(c) The Government will notify an offeror of any conflict of interest within 14 days of receipt of all required information. Those offerors deemed to have a conflict of interest may be ineligible for award. Failure to provide the information in a timely manner does not waive the Government's rights to make a conflict of interest determination. The offeror is notified that if it expends time and money on proposal preparation, such expenditure is at its own risk that the Government will not determine that an organizational conflict of interest exists.

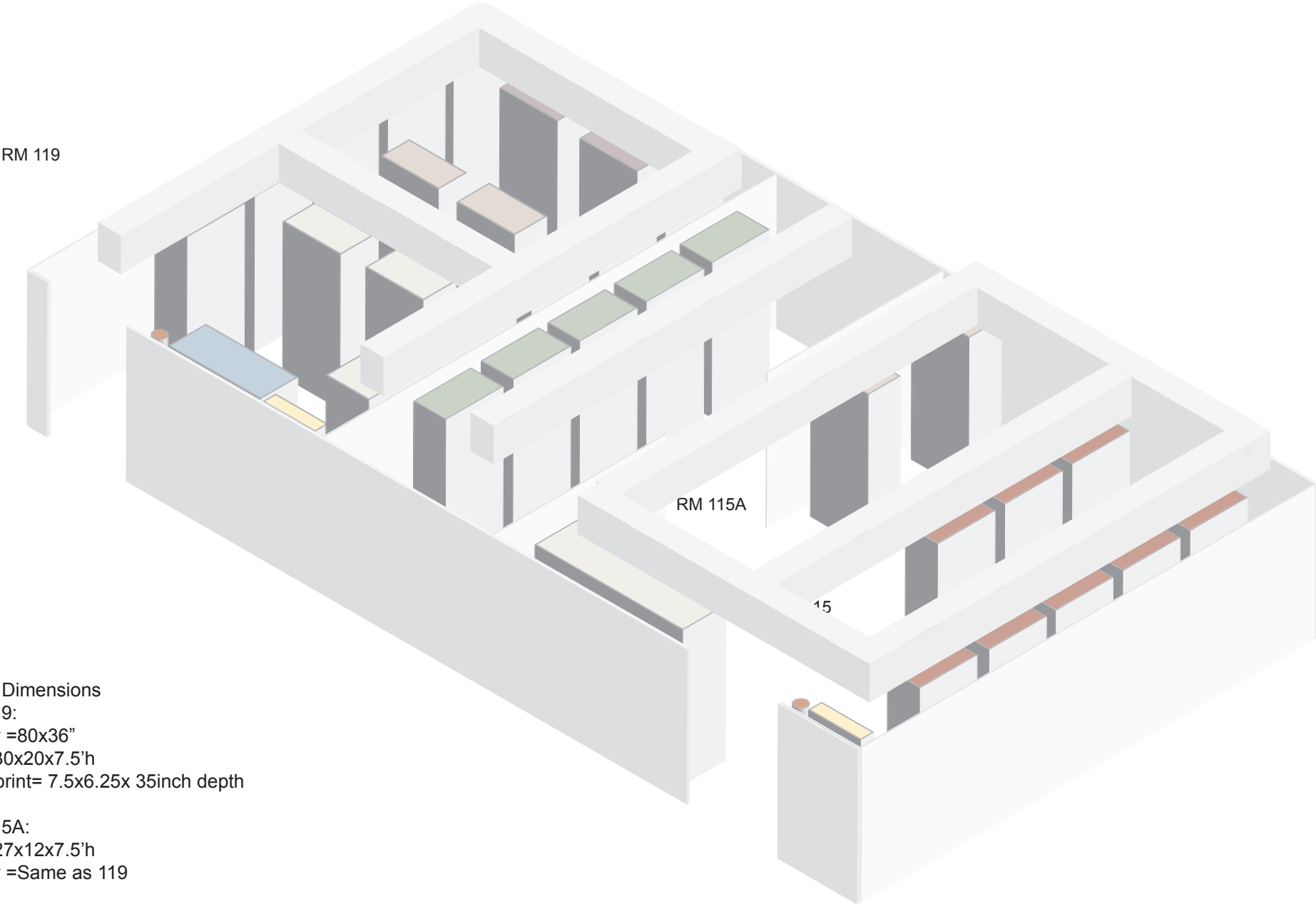
(d) Any potential prime contractor which proposes a subcontractor later determined to have a conflict of interest and deemed ineligible to participate in the current competition, may not be granted the opportunity to revise its proposal to remove the ineligible subcontractor. The Government reserves the right to determine which offerors remain in the competitive range through the normal source selection process.

(e) If the offeror determines that a potential organizational conflict of interest does not exist at any tier, the offeror shall include a statement to that effect in its response to this solicitation.

4. The diagrams referenced in the Statement of Work are hereby incorporated as Addenda 24 to clause 52.212-4. These diagrams can be found at the end of this amendment.
5. The technical specifications referenced in the questions and answers are hereby incorporated as Addenda 25 to clause 52.212-4. These specifications can be found at the end of this amendment.
6. DD Form 254 referenced in the subject solicitation is hereby incorporated as Addenda 26 to clause 52.212-4. This form can be found at the end of this amendment.
7. **All offerors should note that changes to the Proposal Requirements and Evaluation Factors for award, Addendas 1 to clauses 52.212-1 and 52.212-2 respectively, will be provided in a forthcoming amendment.**
8. **All offerors should also note that a new proposal due date will be established at the conclusion of the site surveys. The new proposal due date will be provided in a forthcoming amendment.**
9. All other terms and conditions remain unchanged.
10. For additional information, contact Jessica Maddox at 301-744-6614.





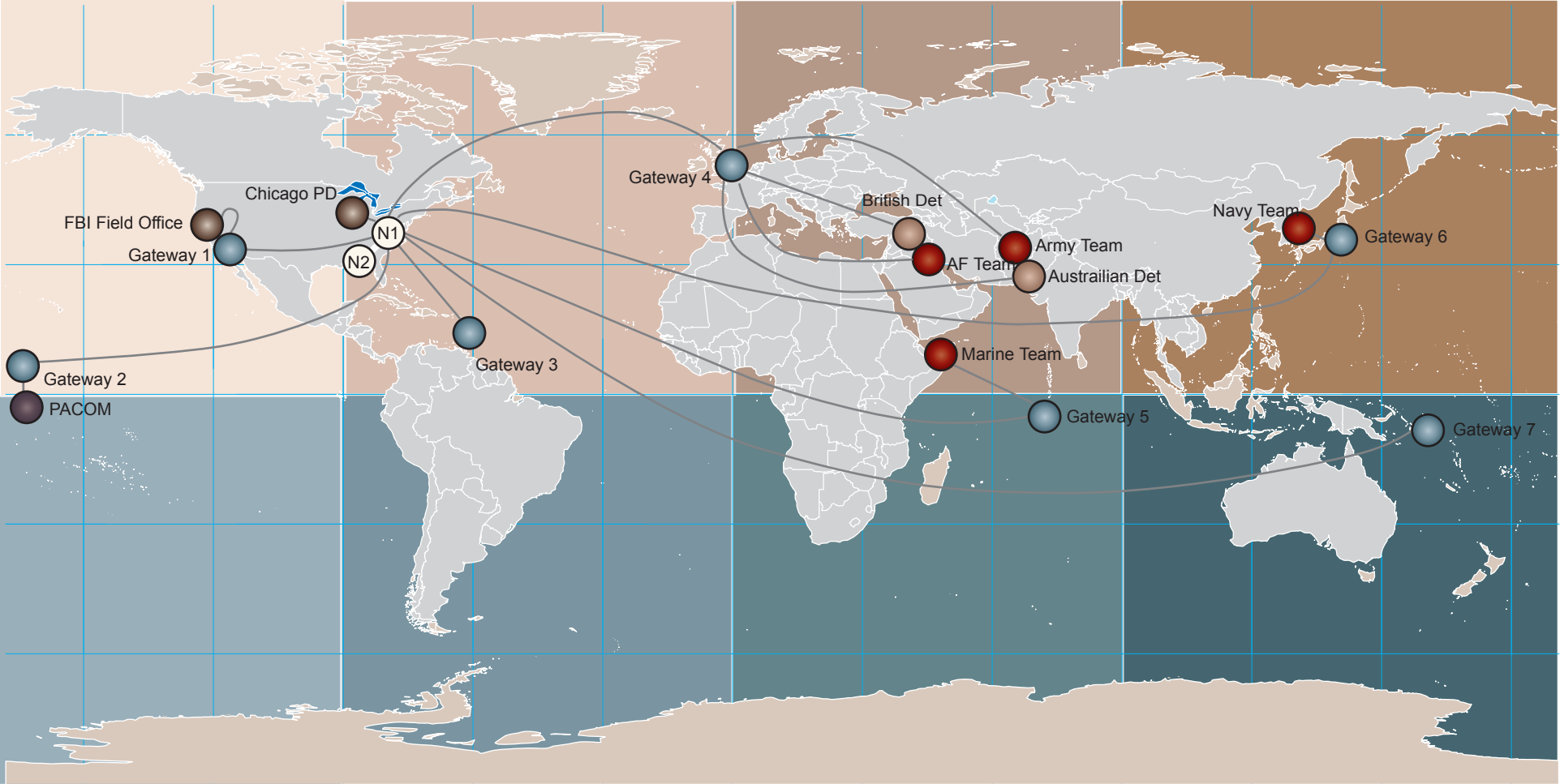


Physical Dimensions
Room 119:
Doorway =80x36"
Room =30x20x7.5'h
A/C footprint= 7.5x6.25x 35inch depth

Room 115A:
Room =27x12x7.5'h
Doorway =Same as 119

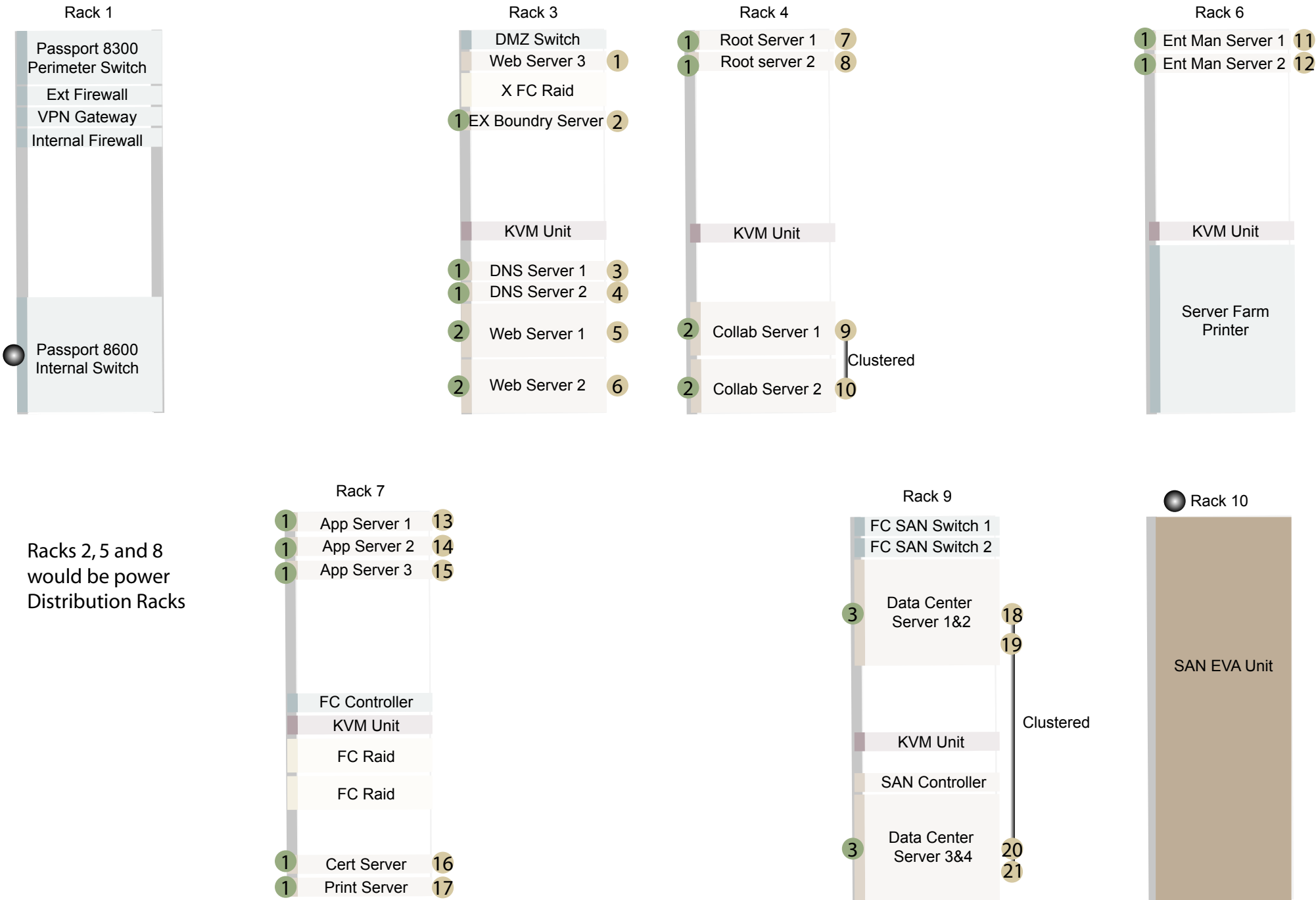
Room 115:
Room=30x20x7.5'h
Doorway=Same as 119

JEODNET High Level Global Network (entities reflect CONOPS not actual locations or number of assets)



- JEODNET Controlling Sites (N1 & N2)
- JEODNET Regional Gateways N3x
- Globally Deployed EOD Teams
- Operational Commanders
- Coalition Partner EOD Teams
- Civilain or NON-DOD Government Responders

Single Server Farm (There will be 2 farms that are 100% identical) This is based on the current Server farm
Vendors are not bound to this rack plan and must provide thier own.



● Denotes harware not covered by this procurement but must be factored in and supported by racks, power, and cabling covered under this procurement

● Denotes server type ● Denotes server number

Diagram 1

DEPARTMENT OF DEFENSE
CONTRACT SECURITY CLASSIFICATION SPECIFICATION
(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)

1. CLEARANCE AND SAFEGUARDING

a. FACILITY CLEARANCE REQUIRED

Secret

b. LEVEL OF SAFEGUARDING REQUIRED

Unclassified

2. THIS SPECIFICATION IS FOR: (X and complete as applicable)

<input type="checkbox"/>	a. PRIME CONTRACT NUMBER	
<input type="checkbox"/>	b. SUBCONTRACT NUMBER	
<input checked="" type="checkbox"/>	c. SOLICITATION OR OTHER NUMBER	DUE DATE (YYYYMMDD)
	N00174-05-R-0004	20041206

3. THIS SPECIFICATION IS: (X and complete as applicable)

<input checked="" type="checkbox"/>	a. ORIGINAL (Complete date in all cases)	DATE (YYYYMMDD)
<input type="checkbox"/>	b. REVISED (Supersedes all previous specs)	REVISION NO. DATE (YYYYMMDD)
<input type="checkbox"/>	c. FINAL (Complete Item 5 in all cases)	DATE (YYYYMMDD)

4. IS THIS A FOLLOW-ON CONTRACT?

☐ YES ☒ NO

If Yes, complete the following:

Classified material received or generated under _____ (Preceding Contract Number) is transferred to this follow-on contract.

5. IS THIS A FINAL DD FORM 254?

☐ YES ☒ NO

If Yes, complete the following:

In response to the contractor's request dated _____, retention of the classified material is authorized for the period of _____.

6. CONTRACTOR (Include Commercial and Government Entity (CAGE) Code)

a. NAME, ADDRESS, AND ZIP CODE

b. CAGE Code

c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)

7. SUBCONTRACTOR

a. NAME, ADDRESS, AND ZIP CODE

b. CAGE Code

c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)

8. ACTUAL PERFORMANCE

a. LOCATION

NAVEODTECHDIV

Other JEODNET Gateway Locations as Identified

b. CAGE Code

c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)

9. GENERAL IDENTIFICATION OF THIS PROCUREMENT

Technical update of the Joint Explosive Ordnance Disposal Network's (JEODNET) enterprise controlling node and the initial roll out of 4 regional gateway nodes.

10. CONTRACTOR WILL REQUIRE ACCESS TO:

YES

NO

a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION

☒

☐

b. RESTRICTED DATA

☐

☒

c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION

☐

☒

d. FORMERLY RESTRICTED DATA

☐

☒

e. INTELLIGENCE INFORMATION

☐

☒

(1) Sensitive Compartmented Information (SCI)

☐

☒

(2) Non-SCI

☒

☐

f. SPECIAL ACCESS INFORMATION

☐

☒

g. NATO INFORMATION

☐

☒

h. FOREIGN GOVERNMENT INFORMATION

☐

☒

i. LIMITED DISSEMINATION INFORMATION

☒

☐

j. FOR OFFICIAL USE ONLY INFORMATION

☒

☐

k. OTHER (Specify)

☐

☒

11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:

YES

a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY

☒

b. RECEIVE CLASSIFIED DOCUMENTS ONLY

☒

c. RECEIVE AND GENERATE CLASSIFIED MATERIAL

☐

d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE

☒

e. PERFORM SERVICES ONLY

☐

f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES

☒

g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER

☐

h. REQUIRE A COMSEC ACCOUNT

☐

i. HAVE TEMPEST REQUIREMENTS

☐

j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS

☐

k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE

☐

l. OTHER (Specify)

☐

12. PUBLIC RELEASE. Any information (classified or unclassified) pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release. ☐ Direct ☒ Through (Specify)

Commanding Officer
NAVEODTECHDIV (Code BA-1)

12. **PUBLIC RELEASE.** Any information (classified or unclassified) pertaining to this contract shall not be released for public dissemination except as provided by the industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release. ☐ Direct ☒ Through (Specify)

Commanding Officer
NAVEODTECHDIV (Code BA-1)
2008 Stump Neck Road
Indian Head, MD 20640-5070

to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs) for review.
In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

13. **SECURITY GUIDANCE.** The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes; to challenge the guidance of the classification assigned to any information or material furnished or generated under this contract; and to submit any question for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. (Fill in as appropriate for the classified effort. Attach, or forward under separate correspondence, any documents/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.)

Classified Information. Classified information received shall be safeguarded in accordance with the assigned security classification level and associated marking. Classified information generated shall be conspicuously marked and safeguarded in accordance with the appropriate security classification level and associated marking(s) as specified by the security classification guide (SCG) or other source document(s) used. The SCG for safeguarding EOD procedural information is "OPNAVINST 5551.3.3B-24.2 EOD Non-nuclear SCG," (see attachment A).

Classification by Compilation. When individual items of unclassified or classified EOD information are combined, classification or higher classification by compilation may result. Classify the compilation per the information revealed. When the compilation of EOD procedures disclose the functions of U.S. and Foreign weapons or devices, classify the functions per the SCG and/or source data for the specific weapon or device involved.

Technical Document Distribution Statement. Unless directed otherwise by the government's Contracting Officer Representative, all unclassified and classified EOD technical documents shall be assigned Distribution Statement F: "Further dissemination only as directed by the Commanding Officer, Naval EOD Technology Division, 2008 Stump Neck Road, Indian Head, MD 20640-5070, (date), or higher DoD authority."

For Official Use Only (FOUO) Information. Unclassified EOD technical documents shall be protected and marked as FOUO. Unclassified EOD technical documents contain technical data which is subject to The Arms Export Control Act and is therefore exempt from mandatory disclosure under the DoD Freedom of Information Act Program, DOD 5400.7-R. Exemption (b)(3) applies.

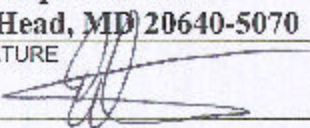
Intelligence Controlled Information. Intelligence controlled information released in support of this contract, all reproductions thereof, and all other information generated based on, or incorporating data from, remains the property of the U.S. Government. The contractor shall not release such intelligence to any of their components or employees not directly engaged in providing services under this contract, or other binding agreement, or to another contractor without the consent of the NAVEODTECHDIV. Intelligence which bears the following control markings or statements is not authorized for release to the contractor unless permission has been obtained from the originator via the Director, Office of Naval Intelligence (ONI-5): "PROPIN," "ORCON," information which originates from Foreign Service reporting, or, information that is marked for special handling within specific dissemination channels.

Supplemental Classification Recommendations. In the event contractor performance exceeds the scope of the classification guidance provided, the contractor shall contact NAVEODTECHDIV (BA-1) for additional guidance. All users of this DD-254 are encouraged to assist in maintaining its accuracy and completeness. If circumstances indicate a need for changes in this DD-254, assigned security classifications, or if additional topics are required, completely documented and justified recommendations should be submitted to NAVEODTECHDIV (BA-1).

14. **ADDITIONAL SECURITY REQUIREMENTS.** Requirements, in addition to ISM requirements, are established for this contract. ☐ Yes ☒ No
(If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement, which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use item 13 if additional space is needed.)

15. **INSPECTIONS.** Elements of this contract are outside the inspection responsibility of the cognizant security office. ☐ Yes ☒ No
(If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use item 13 if additional space is needed.)

16. **CERTIFICATION AND SIGNATURE.** Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL Eric Peterson	b. TITLE Security Officer/Manager	c. TELEPHONE (Include Area Code) 301-744-6802, DSN 354
d. ADDRESS (Include Zip Code) Commanding Officer NAVEODTECHDIV (Code BA-1) 2008 Stump Neck Road Indian Head, MD 20640-5070	17. REQUIRED DISTRIBUTION	
e. SIGNATURE 	<input checked="" type="checkbox"/> a. CONTRACTOR <input type="checkbox"/> b. SUBCONTRACTOR <input checked="" type="checkbox"/> c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR <input type="checkbox"/> d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION <input checked="" type="checkbox"/> e. ADMINISTRATIVE CONTRACTING OFFICER <input checked="" type="checkbox"/> f. OTHERS AS NECESSARY	

**JEODNET
Rack Plan**

JEODNET Gateway Rack Plan Rack 1

#	U	Equipment	Model Number	Manufacturer	IP Type	Price	Amper	Watts	BTU (Std)
1	1	External Firewall	Alecom 510F w/Check Point Software (See RCM)	Alecom/Checkpoint	Public		1.00	90	151
2	1	DMZ Switch	Baystack 470-24T (See RCM)	Nortel	Public		1.00	90	114
3	2	Red Edge 1	RE-KG-240 & 5 Year - SE-SVC-WARR-PLUS	L3/Safenet	Public		0.20	24	41
4	2	Red Edge 2	RE-KG-240 & 5 Year - SE-SVC-WARR-PLUS	L3/Safenet	Public		0.20	24	41
5	4	Web Server		Type 2 Server	Public				
6	2	DNS Server	F5 3-DNS 550 & 5 Yr. Service Support & Installation	F5	Public		3.00	350	567
7	2	MARS Portal Server		Type 1 Server	Public				
8	2	JEODNET Portal Server		Type 1 Server	Public				
9	1	Console/16 Port KVM	Tripp Lite 00-00-016	Tripp Lite	Private		0.20	24	41
10	4	Future Expansion							
11	2	UPS	External Battery, Model GXT2-144VBATT	Liebert	Private		23.60	2832	4853
12	2		External Battery, Model GXT2-144VBATT						
13	4		UPSstation GXT2, Model GXT2 8030RT230						
14	8	ECM	ECM2000LB	Liebert	N/A		10.80	1272	2155
Liebert 42U Rack Environmentally Controlled Enclosure (H4785000K056)									
Totals =						\$0.00	38.80	4706	8026

RACK PLAN SUMMARY				
Rack 1 Total =		\$0.00	38.80	4706.00
Rack 2 Total =		\$0.00	43.00	4964.00
Rack Plan Grand Total =		\$0.00	82.80	9670.00

JEDNET
JEDNET Gateway Rack Plan Rack 2

#	U	Equipment	Model Number	Manufacturer	IP Type	Price	Ampe	Watts	BTU (Met)
1	1	Internal Firewall	Ale + NetWorkPlus Data Software (See BCM)	Nortel/CheckPoint	Pub/Private		1.00	93	154
2	3	Internal Switch	Passport 3805 (DS1412F00) & 8618G1E - (DS140403a) & 8648TXE - (DS1404037) (See BCM)	Nortel	Private		7.50	770	2625
5	7	DCI DAP/Cert Server		Type 1 Server	Private				
6	2	Amendment Server		Type 1 Server	Private				
7									
8									
9									
10	4	Web Server		Type 2 Server	Private				
11									
12									
13	4	Database Server		Type 2 Server	Private				
14									
15									
16									
17	2	NAS Server		Type 1 Server	Private				
18									
19									
20									
21	7	NAS Storage		Drive Chassis	Private				
22									
23									
24									
25									
26	2	UPS	External Battery, Model GXT2-144VBATT	Liebert	Private		23.60	2632	4633
27			External Battery, Model GXT2-144VBATT						
28	2		External Battery, Model GXT2-144VBATT						
29			UPStation GXT2, Model GXT2-6000RT20L						
30	4								
31									
32									
33									
34									
35									
36									
37									
38	8	ECM	ECM2000LR	Liebert	N/A		10.00	1272	2105
39									
40									
41									
42									
Liebert 42U Rack Environmentally Controlled Foundation (HK788CC00KW937)									
Totals =						\$0.00	43.00	4964	9777

Type 1 Servers – shall meet the following minimum technical specifications:

Requirements

Servers will be no more than 2U (1 to 1.5 preferred)

Server will be loaded with Microsoft Windows 2003 Server Enterprise Edition unless otherwise specified under specific server requirements

Servers will be configured with a minimum of 4GB Ram unless otherwise specified

Servers will contain at least 4 hard drives

All hard drives will have at least a 146.8GB capacity at 10K RPM unless otherwise specified under server specific requirements

Drive 1 will mirror drive 2

Drive 3 will be configured as a global hot spare

Drive 4 will be configured as a global hot spare

Each server will contain redundant, hot swappable power supplies

Each server will support remote management

Each server will accept shutdown commands from the power management and distribution system with adequate time to execute the shutdown process just prior to battery drain

Each Server will continuously report its health to the enterprise server management system

Each server will alert the enterprise server management system when its operational conditions fall outside the range of acceptable conditions

Each server will be imaged onto a separate hard drive partition from the partition on which the OS is loaded

Each server will be capable of and configured for possible clustering in the future

No optional or advanced services will be loaded with the operating system

Each server will be configured as a stand alone server unassociated with any domain (AD and other services will be installed later)

Each server will contain a configured boot partition

Each server will contain 2 Fiber GIG E NICs unless otherwise specified

Each Server will contain 1 serial port (2 preferred)

Each server will contain 2 USB ports

Each server will contain 2-32 bit processors

Each processor will be the fastest currently supported

Each server will contain a total 2 FC ports on separate cards at 2Gbps (2 ports on 1 card is acceptable but not preferred)

Each server will contain 1 DVD RW drive

Each server will contain 1 floppy drive

Each server will use a Hard Drive – CD – Floppy –PXE boot sequence that is interruptible

Each servers video card will support 1280 x 1024 resolution and 16.19 million colors

All materials must be covered by 2 years or more available 2 year technical support and 2 year warranty

Type 2 Servers - shall meet the following minimum technical specifications:
Requirements
Servers will be no more than 4U
Server will be loaded with Microsoft Windows 2003 Server Enterprise Edition unless otherwise specified under specific server requirements or Data Center Server Edition is required to support installed RAM
Servers will have a minimum of 8 GB RAM
Servers will contain at least 4 hard drives
All hard drives will be at least 146.8GB at 10K RPM
Drive 1 will mirror drive 2
Drive 3 will be configured as a global hot spare
Drive 4 will be configured as a global hot spare
Each server will contain 2 RAID controllers 1 active and cabled to all 4 drives a second inactive card that drives can be moved to should card 1 fail
Each server will contain redundant, hot swappable power supplies
Each server will support remote management
Each server will accept shutdown commands from the power management and distribution system with adequate time to execute the shutdown process just prior to battery drain
Each Server will continuously report its health to the enterprise server management system
Each server will alert the enterprise server management system when its operational conditions fall outside the range of acceptable conditions
Each server will be imaged onto a separate hard drive partition from the partition on which the OS is loaded
Each server will be capable of and configured for possible clustering in the future
No optional or advanced services will be loaded with the operating system
Each server will be configured as a stand alone server unassociated with any domain (AD and other services will be installed later)
Each server will contain a configured boot partition
Each server will contain 2 Fiber GIG E NICs unless otherwise specified
Each Server will contain at least 1 serial port (2 preferred)
Each server will contain 2 USB ports
Each server will contain 4 32 bit processors
Each processor will be the fastest currently supported
Each server will contain a total of 2 FC ports on separate cards (1 per card) at 2 Gbps
Each server will contain 1 DVD RW drive
Each server will contain 1 floppy drive
Each server will use a Hard Drive - CD - Floppy -PXE boot sequence that is interruptible
Each servers video card will support 1280 x 1024 resolution and 16.19 million colors

All materials must be covered by 24x7x365 best available 5 year technical support and 5 year warranty

NAS

Each rack must contain 1 FC Raid with a minimum of 6 TB capacity (scalable to 12TB)
FC Raid must contain 2 redundant FC switches
FC Raid must contain redundant power supplies for all components
FC Raid controller must contain redundant cache of the largest capacity supported
FC Raid must connect using 100% redundant paths to the type 1 server cluster and type 2 server

All materials must be covered by 24x7x365 best available 5 year technical support and 5 year warranty

F5 3-DNS BOM				
Qty.	Part #	Description	Price	Ext. Price
1	F5-3DNS	A339294 3-DNS Controller 520		
5	F5-SVC-BIG-PRE	A339234 Annual Premium Service-5		\$0.00
1	F5-INST-BIG-1	A255681 Instal/Config - Basic Products		\$0.00
			Total =	\$0.00